INSTITUTE OF COMPUTER SCIENCE
ANNUAL REPORT 2012
From the Director

The Institute of Computer Science is one of the very few academic institutions in Poland with the longest tradition in computer research & development, as well as in education. The history of the Institute goes back to the year 1953 when the Division of Communications and Radio Equipment was established at the Faculty of Communications (was so called then). In 1960, the Division has designed and built one of the first industrially produced electronic computers in Poland, called UMC1. Teaching in the field of computing and computers has started early in 60’s, so that the first few M.Sc. degrees in Computer Science were granted in 1962. From then on, the regular curricula in the field have been proposed.

In 1970 the Division was transformed into Institute for Construction of Mathematical Machines. Finally, in 1975 the Institute was given its present name. From the very beginning up to 1978 the Division, and then Institute was headed by the late Professor Antoni Kiliński. In 1997 his professional contribution to the field of computers was posthumously honoured with “Computer Pioneer Medal” awarded by IEEE Computer Society.

Yet another person has significantly marked the history of the Institute – the pioneer of Polish Computer Science, late Professor Pawlak, well known worldwide as the one who created the Rough Sets Theory. It is worth noting that in early sixties of the last century he was one of the main contributors in constructing the first Polish computer UMC1. In the years 1989-1996 Professor Pawlak was Director of the Institute.

During the history of the Institute many former staff members of the Institute and our alumni have made careers in computer science at well-known universities in USA, Canada, Europe and Australia.

The main activities of the Institute of Computer Science concentrate around teaching of undergraduate and graduate computer science students, as well as, doing research in the field of computer science. This Annual Report summarizes both types of the activities of the Institute, i.e. the teaching and research activities in the academic year 2011/2012.

Our staff provides courses in English for the track in Electrical and Computer Engineering, offered by the Faculty of Electronics and Information Technology. Since 1995 the Institute has been running Evening Undergraduate Studies in Computer Engineering, with their own curriculum approved by the authorities of the Faculty. From 1999 on, the graduate level of evening studies is provided, and in 2001 first MSc degrees were granted. Also, since 1990 the Institute has organised (together with the Faculty’s Institute of Telecommunications) a study for postgraduate students, which offers courses in computer science, telecommunications and system management, called CITCOM. In 1994 the Institute’s postgraduate studies in computer science for high school teachers have been organized. They are held continuously up till now.

Now, each year some 80 students receive their BSc degrees, and 118 students are awarded MSc degrees. Additionally, we are proud of our PhD students. In 2012, seven PhD students have completed their theses and have been awarded with PhD degrees.

The Institute’s main research areas include computer graphics, information systems, data and text mining, artificial intelligence, computer systems’ architectures, dependable computing and software engineering. In 2012 the Institute has organized a technical workshop devoted to the research being performed within the nation n-wide project SYNAT, which is devoted to the development of the infrastructure for scientific information in Poland. The workshop turned out to be a very successful event.

With the acknowledged excellence of our research activities the main funds for research are obtained not only from the Polish governmental authorities responsible for scientific research, but also from EU Programmes and industry. In the framework of FP6 we have participated already in 2 projects. The cooperation with the industry has a long tradition,
going back to the pioneering works in 60-ties and 70-ties of the last century. In late 90-ties we have enjoyed a co-operation with Siemens, and ERA GSM. In 2005-2007 we cooperated with France Telecom, continuing it now with its Polish research branch CBR. We have also initiated a co-operation with UN organizations, in 2007 with UNEP, and in 2009 with FAO.

In 2012 we have been continuing our very successful cooperation FAO, and started a cooperation with TP ORANGE. In 2012 we also continued work on the strategic project SYNAT, advancing work on a scientific knowledge base for the University.

Our co-operation with industry involves not only the Institute’s academic staff but also our PhD and MSc students, who participate in the research projects. The outcome of the research run by the Institute staff is well reflected in our publication record. In 2012 our staff have authored and co-authored 84 publications (2 authored books, 4 co-edited books, and 78 papers in international scientific journals, and conference proceedings, as well as chapters in the books).

The research achievements of the Institute’s staff are well recognized in the academic community. In 2012 Professor Z. Raś received the title of professor of technical sciences, and Dr Tomasz Martyn defended his habilitation. Our colleagues are invited to the programme and organizing committees of international conferences. They are also often invited for reviewing papers for renowned international journals. It is my pleasure to express my appreciation to the Institute’s staff for their efforts and contributions in the Institute’s achievements in teaching and research.

Warsaw, January 2013

Henryk Rybiński
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1. GENERAL INFORMATION

1.1. Mission of the Institute

The Institute of Computer Science is one of the six institutes at the Faculty of Electronics and Information Technology, Warsaw University of Technology. The main activities of the Institute are teaching of undergraduate and graduate students in computer science, as well as performing research projects in the field of computer science.

The main Institute’s research areas include computer graphics, information systems, artificial intelligence, data mining, computer systems’ architectures, dependable computing and software engineering. Both, the research and teaching areas have influenced the organisation of the Institute: its staff is subdivided into three divisions, namely Computer Graphics, Information Systems, and Computer Architecture and Software Engineering. Each division has a dedicated set of computer facilities used for research by the Institute staff, and by students in performing their advanced projects, including the diploma projects. In addition to these three research divisions and their specialised equipment and software, the Institute also has a common Computer Laboratory, which provides system resources, know-how and the organisational framework for the teaching process.

At the Faculty of Electronics and Information Technology the Institute is responsible for the teaching tracks in the field of computer science, including the track Electrical and Computer Engineering, which is provided in English. Our staff members are involved in supervising the BSc, MSc, and PhD projects. In 2011/2012 we have awarded 118 students with BSc degree, 80 students with MSc degree, and 8 PhD students with PhD degree.

1.2. Noteworthy events in ’12

- First prize in "Kinetis 1st anniversary contest" has been won by our student. Program named “Science fiction real time voice modulator” implemented by David Obrycki, student of the 4th year of Computer Science at the Institute of Computer Science, Warsaw University of Technology won the first prize in “Kinetis 1st Anniversary Contest” organized by Arrow company. The first prize - multifunction iPad device – was handed over during seminar “Designing with Freescale Market Solution Seminar Poland” http://www.kinetis.pl/node/86 held on May 23rd 2012 in Warsaw. Mr Obrycki developed the winning program working on Digital Signal Processors course project using KwikStik-K40 Development Tool with Freescale Kinetis K-40 processor (MK40X256VLQ100). The program called “Science fiction real time voice modulator” produces modified speaker's voice imitating Star Wars movie effects. The presentation of the program can be found under the address https://www.youtube.com/watch?v=jilaIg82Im0. The prize celebration can be seen under http://www.youtube.com/watch?v=l5G-_R5YSz4&feature=player_embedded.


- The programming contests are organized at national and international level. International Collegiate Programming Contest traces its roots to competition held in 1970. Now it is organized under auspices of Association for Computing Machinery. The competition held in Poland is called Academic Championships in Collegiate Programming (Akademickie Mistrzostwa Polski w Programowaniu Zespolowym) and has been organized for 17 years. The rules for national and international contest are very similar. Students of our faculty participate in both contests. This year the Academic Championships in Collegiate Programming were held in Warsaw (26-29
October) and ACM Central Europe Programming Contest in Kraków (16-18 November). Our team (Adam Mościcki, Michał Krawczak, Mateusz Romański) competed with teams from Austria, Czech Republic, Croatia, Serbia, Slovakia, Slovenia, Hungary and Poland.

The local programming contest has been organized for nine years in order to form a team which competes in national and international contests. The faculty programming contest was held on 20 October at the beginning of academic year. The participants tried to solve a set of 5 algorithmic problems within 4 hours time. The solutions were implemented in C/C++ language. The final rank was based on number of accepted solutions and time needed to solve the problems. The local faculty contest site is available at following address: galera.ii.pw.edu.pl/konkurs/ (in polish).

The faculty programming contest is organized by the staff members of Institute of Computer Science Andrzej Pająk and Zbigniew Szymański.

- In 2012 Waldemar Grabski was a faculty coordinator of the co-operation with the secondary schools and a member of the Curriculum Council of the Open School of the Faculty of Electronics and Information Technology. Within the frames the Open School programme Professor Piotr Gawrysiak gave lecture “Is it possible to be anonymous online?”

- The Institute of Computer Science provides courses for University of the Third Age. The courses are run at the Institute’s Computer Laboratory. The course covers: basics of Microsoft Windows XP, basics of the Microsoft Office 2010, basics of the Internet (viewing and searching the web, email), and web publishing. The classes were divided into 3 equal parts. Each part consisted of four meetings. The classes were held in winter and summer semester 2011/12, duration: 12 sessions of 2 hours- in total 24 hours.
1.3. Board of Directors

**Director**

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**Piotr Gawrysiak**, PhD, DSc, Professor

**Deputy Director for Research** (since 1.09.2012)

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1.4. Organisation of the Institute

1.4.1. Division of Computer Graphics

*Head of Division:* Jan Zabrodzki, Tenured Professor

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Przemysław Rokita, PhD, DSc, Professor
Jerzy R. Chrząszcz, PhD, Assistant Professor
Kamil Kompa, PhD, Assistant Professor
Tomasz Martyn, PhD, DSc, Assistant Professor
Andrzej Pająk, PhD, Assistant Professor
Jacek Raczkowski, PhD, Assistant Professor
Michał Rudowski, PhD, Assistant Professor
Janusz Rzeszut, PhD, Assistant Professor
Cezary Stepień, PhD, Assistant Professor
Henryk A. Kowalski, MSc, Senior Lecturer
Rajmund Kożuszek MSc, Senior Lecturer
Grzegorz Mazur, MSc, Senior Lecturer
Julian Myrcha, MSc, Senior Lecturer
Marek Pawłowski, MSc, Senior Lecturer
Krzysztof Chabko, MSc, Lecturer
Krzysztof Gracki, MSc, Lecturer
Paweł Radziszewski, MSc, Lecturer
Zbigniew Szymański, MSc, Senior R&D Engineer

*Research profile:* image generation and image processing: modelling and rendering, colour in computer graphics, modelling of natural phenomena and objects, real time image generation and processing (algorithms, hardware and software), virtual reality systems. Current research projects include:

- modelling and rendering of plants and their growth,
- colour spaces,
- applications of image processing methods in computer graphics,
- interaction in virtual reality systems,
- data visualisation,
- document processing,
- visualisation of fractal objects,
- compositing computer generated and real images,
- computer games.

*Facilities:* The computer facilities provided for CGD members and their students consist of many PC machines networked to the Institute’s network. Graphics resources include stereoscopic viewing system, helmet VCR and other I/O devices (plotter, tablet, 3D scanner, colour frame grabber with a camera, Kodak 8660 Thermal Printer etc.). Several software systems are accessible on PCs (3DStudio, ModelView, PhotoStyler, PhotoShop, Corel Draw etc.).
Since 1993, in co-operation with Computer Science Committee of Polish Academy of Sciences, Computer Graphics Laboratory has been organising seminars entitled “Computer graphics, image processing and pattern recognition”. The seminars are held monthly during academic year and are open to the public. Lectures given by invited speakers cover broad range of image-related topics ranging from research and applications to technology and art. Seminar schedules are distributed to over 150 regular attendees and published on website together with short abstracts.

1.4.2. Division of Information Systems

*Head of Division: Marzena Kryszkiewicz, PhD, DSc, Professor*

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Mieczysław Muraszkiewicz, Tenured Professor
Henryk Rybiński, Tenured Professor
Zbigniew Raś, PhD, DSc, Tenured Professor
Piotr Gawrysiak, PhD, DSc, Professor
Krzysztof Walczak, PhD, DSc, Professor
Piotr Andruszkiewicz, PhD, Assistant Professor
Robert Bembenik, PhD, Assistant Professor
Jarosław Chudziak, PhD, Assistant Professor
Tomasz Gambin, PhD, Assistant Professor
Piotr Kołaczkowski, PhD, Assistant Professor
Jakub Koperwas, PhD, Assistant Professor
Grzegorz Protaziuk, PhD, Assistant Professor
Dominik Ryżko, PhD, Assistant Professor
Łukasz Skonieczny, PhD, Assistant Professor
Anna Wróblewska, PhD, Assistant Professor
Jan Kaczmarek, MSc, Assistant
Jacek Lewandowski, MSc, Assistant
Przemysław Więch, PhD, Assistant (until 30.09.2012)
Patrycja Węgrzynowicz, MSc, Assistant
Andrzej Ciemski, PhD, Senior Lecturer
Piotr Parewicz, MSc, Senior Lecturer
Piotr Salata, MSc, Senior Lecturer

*Research profile: practice and theory of information, database and knowledge systems as well as knowledge representation and discovery, data, text, spatial and Web mining, privacy preserving data mining, reasoning about knowledge, machine learning, natural language processing, rough sets, bioinformatics, multi-agent systems, mobile technology. Current research projects include:*

- tools for semantic Web and databases,
- knowledge discovery, data, text, space, multimedia and Web mining,
- information retrieval and extraction,
- distributed default logics for reasoning in multi-agent systems,
- building and maintenance of ontologies,
– creation and maintenance of knowledge bases,
– modeling of scalable digital data repositories,
– indexing multiple-inheritance hierarchies,
– implementation of decision support systems,
– analysis of genome data.

Facilities: the computer facilities provided for ISD staff members and their students consist of computers and servers integrated into Institute’s network: PC computers, notebooks (Dell, Lenovo Thinkpad), tablets (HP), accelerator Java Zing, servers Windows 2008, servers Linux, server AIX.

In 2012, an extensive series of seminars was organized, mainly devoted to the research carried out within the SYNAT-PASSIM project granted by The National Centre for Research and Development (NCBiR), which has been launched on August 16, 2010. The lectures were given both by the staff and Ph.D. students of Division of Information Systems, as well as guests from other academic institutions. In addition, the SYNAT 2012 Workshop was organized.

1.4.3. Division of Computer Architectures and Software Engineering

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Pawel Kerntopf, PhD, DSc, Professor
Roman Podraza, PhD, Associate Professor
Grzegorz Blinowski, PhD, Assistant Professor
Ilona Bluemke, PhD, Assistant Professor
Krzysztof Cabaj, PhD, Assistant Professor
Wiktorek Dyczyszyn, PhD, Assistant Professor
Anna Drezginka, PhD, Assistant Professor
Henryk Dobrowolski, PhD, Assistant Professor
Piotr Gawkowski, PhD, Assistant Professor
Artur Krystosik, PhD, Assistant Professor
Dariusz Turlej, PhD, Assistant Professor
Jacek Wytrębowicz, PhD, Assistant Professor
Waldemar Grabski, MSc, Senior Lecturer

Research profile: system dependability (reliability, availability, performance, fault diagnostics and fault tolerance), advanced software engineering problems, software quality issues, advanced system and logical synthesis, formal methods and tools for system design and verification, parallel processing architectures, communication protocols, embedded and real-time systems. Current research projects include:

– testing and analysis of fault effects in computer systems (hardware and software), fault injection techniques, error detection and fault handling techniques, monitoring/analysing event and performance logs
– simulation techniques, modelling and formal methods for specification, design and verification of software, communication protocols, complex embedded systems, etc.,
– distributed system design problems, including multi-agent and SOA systems,
– modern technologies of software design and development, system life cycle, project management, model driven engineering, component based and aspect programming, data analysis tools, data mining applications,
– designing digital reversible circuits.

**Facilities:** The computer facilities provided for CASED members and students consist of many PC machines connected to the Institute’s network. Moreover the division laboratory is equipped with four servers (with virtualization based on Vmware, HyperV and Zen), multiprocessor workstations with RAID disk array and PCs connected to local and faculty network. This equipment is dedicated for research purposes and students’ projects as well. In addition to this there is a special stand for experiments with multi-agent systems (embodied agents represented by small mobile robots), real time systems and a simulation platform for tracing fault effects in computer systems. Various specialized software packages are available (locally and remotely) for research and educational purposes.

In 2012 a series of seminars has been organized devoted to dependable computing problems, embedded systems and software engineering. Members of CASED co-operate with other scientific groups (Institute of Control and Computation Engineering, Faculty of Transport, Institute of Telecommunication, Gdansk University of Technology, Scientifc Network for Synat task) and industry within various projects.

### 1.4.4. Computer Laboratory

*Head:* Mariola Jamiołkowska, BSc  
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**Activity profile:** The Computer Laboratory provides computational facilities and services for both teaching and research carried out in the Institute. It consists of several laboratories dedicated to programming, hardware design, performing different software and hardware projects (i.e. diploma theses)

**Facilities:** The resources of the Computer Laboratory are closely integrated with other computer resources of the Institute (the research laboratories, staff-members’ personal computers) into one, multiprotocol, heterogeneous network. This LAN consists of several main servers (IBM pSeries, IBM x3650M3, IBM x3755M3, SUN X4600M2, Agilent N2X, LINUX, Windows Advanced Servers), common disk matrices (Hitachi), and a large number of PCs and workstations. All the computers at the Institute have full access to the University's campus network and to the Internet.

The Software Division of the Computer Laboratory supports various operating systems (AIX, Solaris, LINUX, Windows) and various applications (compilers, simulators, CASE tools, office programs, etc.) including advanced software packages such as Visual.Net Studio, ORACLE RDBMS, IBM DB2, IBM Rational, Delphi, Eclipse, SQL Server, and many others.

The Hardware Division of the Computer Laboratory is equipped with specialised hardware development workstations, each consisting of a modular microprocessor/hardware assembly system (SML3), linked to a personal computer. Oscilloscopes and development systems for several types of microprocessors are provided as additional equipment.
As a result of long term cooperation with Texas Instruments, the Hardware Division is equipped with ten two core DSP/ARM processors development kits (H52C1 Concerto control Card), and floating licences for the Code Composer Studio v5 have been obtained. There are eZdsp6713 Kit, TMS320VC5505 DSP Evaluation Module, MSP430 USB Debugging Interface, MSP430F55xx USB 80-Pin Target board, F28035 Piccolo Experimenter’s Kit, Delfino C28343 Experimenter’s Kit, Delfino C28346 DIM168 Experimenter’s Kit, C2000 Peripheral Explorer Kit, Dual Motor Control and PFC Developer’s Kit and C2000 Renewable Energy Developer’s Kit in laboratory linked to the computers with Code Composer Studio v5 software. This equipment is used for digital signal processor architecture and programming courses, preparation of BSc and MSc projects, research and scientific work in the field of real time systems and ECG signal analysis.

In 2012 together with Freescale Semiconductor, Inc. As a partner an Embedded Computing Lab has been created. The partner donated several development tools:

- 10 TWR-K70F120M kits (includes elevator and serial modules)
- 10 TWR-LCD graphical LCD modules
- 10 TWR-PROTO modules
- 10 TWR-WIFI-G1011MI Wi-Fi modules
- 1 TWR-K53N512 kit (includes elevator and serial modules)
- 1 MED-EKG kit for Tower system
- 1 TWR-MEM-PISMO memory module
- 1 TWR-WIFI-RS2101 Wi-Fi module
- 100 seat floating license for CodeWarrior Academic version for MCUs

Also in 2012 the server resources of the Institute have been enhanced by a powerful IBM x3755 M3 with four 16-core CPU.
2. STAFF

In 2012, 68 staffers were employed in the Institute of Computer Science, including 55 scholars: 11 professors, 1 associate professor, 28 assistant professors with a PhD degree, 3 assistants and 9 senior lecturers and 3 lecturers. The remaining employees are the engineers, laboratory and office staff.

2.1. Senior academic staff

Piotr ANDRUSZKIEWICZ, MSc (2005); PhD (2012); Computer Science, Assistant Professor, Information Systems Division; Data- and Web-Mining; Privacy Preserving Data Mining; Machine Learning; Databases; Mobile Phone Technologies; [Edu41]; [BSc27]; [Pub47], [Pub48].

Robert BEMBENIK, MSc (2001), PhD (2007); Computer Science, Databases, Spatial Databases, Spatial Data Mining, Data Mining, Assistant Professor, Information Systems Division; [Edu45]; [BSc1], [BSc16], [BSc73]; [Pub6], [Pub25], [Pub45], [Pub75].

Grzegorz BLINOWSKI, MSc (1993), PhD (2001); Assistant Professor; Computer Science, Division for Computer Architecture and Software Engineering; operating systems and distributed systems, with special emphasis on large scale distributed systems: P2P and grid computing. Other research interests include computer network security; [Edu15], [Edu31]; [MSc10], [MSc31], [MSc45]; [BSc80]; [Pub9].

Ilona E. BLUEMKE, MSc (1978), PhD (1989); Assistant Professor; Computer Science; Division for Computer Architectures and Software Engineering; Member of the Polish Computer Society (1980-); Member of Technical Committee on Software Engineering IASTED (2001); Rector’s Award in Education (2005); Rector’s Award in Science (2008); [Edu7], [Edu21], [Edu32], [Edu65], [Edu67], [Edu84], [Edu94]; [MSc2], [MSc27], [MSc36], [MSc50], [MSc77], [BSc90]; [Pub9], [Pub10], [Pub20], [Pub51].

Bohdan BUTKIEWICZ, MSc (1964), PhD (1972), DSc (2003); Fuzzy systems, Reliability theory, Control theory; Professor; Circuit and Signal Theory Division; Member nominated of the faculty; IEEE Member (1991-); IEEE System, Man. and Cybernetic Society Member, IEEE Computational Intelligence Society Member, IEEE Computational Intelligence Society Member; [Edu38]; [MSc46]; [BSc19]; [Pub53].

Krzysztof CABAJ, MSc (2004), PhD (2009); Computer Science, Assistant Professor, Division for Computer Architecture and Software Engineering; Computer Networks, Security, Data-Mining; Cisco Certified Instructor of CCNA, NS, CCNP courses; [MSc3]; [BSc70], [BSc71]; [Pub11], [Pub35], [Pub63].
Krzysztof CHABKO, MSc (1993); Senior R&D Engineer (2002-2011); Computer Graphics Division; Lecturer (2011-); Rector's Award in Education (2012); [Edu107], [Edu115], [Edu117], [Edu132], [Edu128]; [MSc13], [MSc63]; [BSc29], [BSc31], [BSc44], [BSc72].

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Jerzy R. CHRZĄSZCZ, MSc (1986), PhD (1994); Assistant Professor; Microprocessor Systems and Programmable Logic, Computer Graphics Division; Member of the Curriculum Committee (1994-1995); Secretary of Seminar on Computer Graphics, Image Processing and Pattern Recognition (1993-); Member of the Polish Information Processing Society (1986-); Rector's Award in Education (1992), (2002); Minister of Education Award (1995); [Edu17], [Edu60]; [MSc42]; [BSc46], [BSc79], [BSc86], [BSc109].

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Wiktor DASZCZUK, MSc (1982); PhD (2003); Assistant Professor; Computer Science; Specification and verification of concurrent systems; Division for Computer Architecture and Software Engineering; Member of the Polish Information Processing Society (1981); Siemens Award in R&D Projects (1996); [Edu16], [Edu19].

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Anna DEREZIŃSKA, MSc (1984); PhD (2002); Assistant Professor; Computer Science; Research interests: software engineering, especially different aspects of model driven development, software testing - including mutation testing, system dependability evaluation and improvement. Division for Computer Architectures and Software Engineering; Rector’s Award in Education (2005); Rector’s Award in Science (1993), (1998), (2003), (2008); [Edu21], [Edu32], [Edu67], [Edu94]; [BSc105]; [Pub12], [Pub13], [Pub55], [Pub56]; [Rep1].

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2.5. Administrative staff

Anna FILIPOWSKA-CHLEBEK, MSc (1979); Accountant; She works in the Institute of Computer Science since 2011, where she leads Financial Office. Coordinator of Public Procurement (2012-);
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e-mail: B.Skalska@ii.pw.edu.pl

Ewa SZTYBER, Secretary; She works in the Warsaw University of Technology since 1954.
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e-mail: E.Sztyber@ii.pw.edu.pl

Krystyna SOSNOWSKA, MA (1980); Librarian; She works in the Institute of Computer Science since 1976. Leads Library of the Institute.
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Phone: 22 234-7304  
e-mail: K.Sosnowska@ii.pw.edu.pl
3. TEACHING ACTIVITIES

3.1. Basic courses offered by the Institute

Each item listed below specifies the course title (e.g., Computer Architecture), its acronym or code (e.g., ARKO), number of hours per week (lecture, classes, laboratory, project hours respectively, e.g., ‘3-1’ means three hours of lecture per week, no classes, one hour of lab, and no project), its placement in the curriculum (e.g., ‘undergraduate course for CSE students’) and the name of the person(s) responsible for the course. Persons marked with an asterisk (*) are not employed in the Institute.

**Undergraduate courses for CSE students**

[Edu1] Analysis of Algorithms (AAL, 2-2); Andrzej Pająk, PhD
[Edu2] Algorithms and Data Structures (AISDI, 211-); Roman Podraza, PhD
[Edu3] Basics of Computer Programming (PRI, 212-); Henryk Dobrowolski, PhD
[Edu4] Computer Architecture (ARKO, 3-1-); Grzegorz Mazur MSc, Dariusz Turlej, PhD
[Edu6] Computer Networks 2 (SKM2, 2-11); Jacek Wytrębowicz, PhD
[Edu7] Compiling Techniques (TKOM, 2-2-); Andrzej Pająk, PhD, Iona Bluemke, PhD
[Edu8] Databases Systems (BD, 2-2-); Piotr Parewicz, MSc
[Edu9] Digital Electronics (ECY, 211-); Janusz Rzeszut, PhD
[Edu10] Digital Systems Design (PUCY, 2-1); Marek Pawłowski, MSc
[Edu11] Event-Driven Programming (PROZ, 2-2-); Roman Podraza, PhD
[Edu13] Interactive Applications Programming (PAIN, 2-1-); Waldemar Grabski, MSc
[Edu14] Internet Techniques (TIN, 2-1-); Grzegorz Blinowski, PhD
[Edu15] Introduction to Computer Science (WI, 31--); Wiktor Daszczuk, PhD
[Edu16] Microprocessor Systems (TM, 2-2-); Jerzy Chrząszcz, PhD
[Edu17] Object Oriented Programming (PROI, 2-2-); Andrzej Pająk, PhD
[Edu18] Operating Systems (SOI, 2-2-); Wiktor Daszczuk, PhD
[Edu19] Peripheral Devices and Interfaces (UZINT, 2-1-); Tenured Professor Janusz Sosnowski
[Edu20] Software Engineering 2 (IOP2, 2-1-); Ilona Bluemke, PhD, Anna Derezinski, PhD
[Edu21] Systems and Networks Security (BSS, 2-1-); Professor Pawel Kerntopf
[Edu22] Symbolic Data Processing Languages (JPS, 2-1-); Piotr Parewicz, MSc

**Elective courses for CSE students**

[Edu23] Data Warehouses (ZBD, 2-1); Jaroslaw Chudziak, PhD
[Edu24] DSP Processors (PS, 2-11); Henryk Kowalski, MSc
[Edu25] Embedded Systems (SWB, 2-11); Henryk Dobrowolski, PhD
[Edu26] Object Modelling for Computer Animation (MOA, 2-2-); Cezary Stępień, PhD
ORACLE System Architecture and Database Administration (ORACL, 2-1-); Michal Rudowski, PhD

Rapid Application Prototyping Tools (NTR, 2-2-); Julian Myrcha, MSc

System's Programming in Windows NT (PWNT, 2--1); Artur Krystosik, PhD

UNIX System Architecture, Programming and Administration (UXP1A, 2--1); Grzegorz Blinowski, PhD

**Advanced courses (graduate level)**

Advanced Methods of Software Development (ZMWO, 2-1-); Ilona Bluemke, PhD, Anna Derezińska, PhD

Advanced Topics in Data Base Systems (ZPBD, 2--1); Tenured Professor Henryk Rybiński

Analysis and Design of Information Systems (APSI, 2--2); Piotr Salata, MSc

Data Mining Methods (MED, 2-11); Professor Marzena Kryszkiewicz

Digital Image Processing (POBR, 2-11); Professor Przemysław Rokita

Distributed Systems (SR, 2--1); Artur Krystosik, PhD

Fuzzy Systems (SYROZ, 2--1); Professor Bohdan Butkiewicz

Fundamentals of Theoretical Computer Science (PTI, 21--); Professor Paweł Kerntopf, Professor Krzysztof Walczak

Intelligent Information Systems (ISI, 2--1); Tenured Professor Mieczysław Muraszkiewicz

Introduction to Data and Text Exploration in WWW (WEDT, 2--1); Piotr Andruszkiewicz, PhD

Introduction to Mobile Applications Programming (WPAM, 2--1); Professor Piotr Gawrysiak

Multi-Agent Systems (SAG, 2--1); Dominik Ryżko, PhD

Pattern Recognition (ROB, 2-2-); Rajmund Kożuszek, MSc

Spatial Databases (SPDB, 2--1); Robert Bembenik, PhD, Grzegorz Protaziuk, PhD

**Courses for Evening Undergraduate Studies in Computer Science**

Administration of UNIX (UNIX, 1-1-); Zdzisław Michalski, MSc

Algorithms and Data Structures (AISDA, 2-1-); Roman Podraza, PhD

Application Programming in Windows (PAW, 1-1-); Waldemar Grabski, MSc

CAD/CAM Systems (SYSCA, 1-2-); Professor Maciej Bossak(*)

Computer Architecture (AKO, 2-1-); Dariusz Turlej, PhD

Computer Graphics and Image Processing (GPOB, 2-2-); Tenured Professor Jan Zabrodzki

Computer Networks (SIEKO, 2-2-); Jacek Wytrębowicz, PhD

Computer Systems (SYSKO, 2---); Henryk Dobrowolski, PhD

Data Bases (BADA, 2-2-); Dominik Ryżko, PhD

Digital Integrated Circuits (CUS, 2-2-); Janusz Rzeszut, PhD
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DTP Systems (SYDTP, 1-2-); Cezary Stępień, PhD

Fundamentals of Digital Technology (PTCYF, 2-2-); Andrzej Skorupski, PhD*

Hardware Project (PROJ2, ---2); Grzegorz Mazur, MSc

Introduction to Computer Science (WDI, 1---); Jerzy Mieścicki, PhD*

Microprocessor Systems (SYSMI, 2-2-); Jerzy Chrząszcz, PhD

Object Oriented Programming (PROGO, 2-2-); Rajmund Kożuszek, MSc

Operating Systems (SYSOP, 2-2-); Dariusz Turlej, PhD

Personal Computer (PCET, 1-2-); Grzegorz Mazur, MSc

Programming in Java (PROGC, 2-2-); Roman Podraza, PhD

Hardware Project (PROJ2, ---2); Andrzej Skorupski, PhD*

Introduction to Computer Science (WDI, 1---); Jerzy Mieścicki, PhD*

Object Oriented Programming (PROGO, 2-2-); Rajmund Kożuszek, MSc

Operating Systems (SYSOP, 2-2-); Dariusz Turlej, PhD

Personal Computer (PCET, 1-2-); Grzegorz Mazur, MSc

Programming in Java (PROGC, 2-2-); Roman Podraza, PhD

3.2. English language Computer Science Courses

The Institute of Computer Science provides the following courses to the students of English-language Electrical and Computer Engineering Studies. The course title, its code, the number of credit points and the name of the person responsible is given for each item.

Algorithms and Data Structures (EADS, 211-) (E); Roman Podraza, PhD

Computer Architecture (ECOAR, 211-) (E); Grzegorz Mazur, MSc

Computer Graphics (ECOGR, 22--); Janusz Rzeszut, PhD

Computer Networks (ECONE, 2-2-); Jacek Wyrębowicz, PhD

Compiling Techniques (ECOTE 211-); Ilona Bluemke, PhD

Data Bases (EDABA, 211-); Tenured Professor Henryk Rybiński

Data Mining (EDAMI, 2--2); Professor Marzena Kryskiewicz

Diploma Seminar (EDISE, -2--); Roman Podraza, PhD
3.3. Special courses

[Edu95] Applied Problems of Physics, Postgraduate Studies For Teachers in Computer Science, Professor Jaroslaw Parka

[Edu96] Algorithmic Problems and Programming in C++; Postgraduate Studies For Teachers in Computer Science, Andrzej Pająk, PhD

[Edu97] Computer Graphics; Postgraduate Studies For Teachers in Computer Science, Cezary Stepień, PhD

[Edu98] Computer Hardware; Postgraduate Studies For Teachers in Computer Science, Grzegorz Mazur MSc

[Edu99] Data Bases; Postgraduate Studies For Teachers in Computer Science, Wojciech Kamiński, MSc*

[Edu100] Edition of School Internet Portals; Postgraduate Studies For Teachers in Computer Science, Zbigniew Szymański, MSc

[Edu101] Event Programming – Delphi; Postgraduate Studies For Teachers in Computer Science, Krzysztof Gracki, MSc

[Edu102] Final Project; Postgraduate Studies For Teachers in Computer Science, Tenured Professor Jan Zabrodzki

[Edu103] Introduction to Computer Science; Postgraduate Studies For Teachers in Computer Science, Rajmund Kożuszek MSc

[Edu104] Internet; Postgraduate Studies For Teachers in Computer Science, Pawel Radziszewski, MSc

[Edu105] Introduction to Java; Postgraduate Studies For Teachers in Computer Science, Roman Podraza, PhD

[Edu106] Linux Operating System; Postgraduate Studies For Teachers in Computer Science, Zbigniew Szymański, MSc

[Edu107] Multimedia; Postgraduate Studies For Teachers in Computer Science, Krzysztof Chabko MSc

[Edu108] Programming C++/Delphi – Project; Postgraduate Studies For Teachers in Computer Science, Krzysztof Gracki, MSc

[Edu109] School Computer Network Administration; Postgraduate Studies For Teachers in Computer Science, Z. Szymański, MSc

[Edu110] Selected Problems of Mathematics, Postgraduate Studies For Teachers in Computer Science, Katarzyna Litewska, PhD
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<tr>
<th>Edu111</th>
<th>Software Tools; Postgraduate Studies For Teachers in Computer Science, Rajmund Kożuszek, MSc</th>
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<td>Edu112</td>
<td>Spreadsheets; Postgraduate Studies For Teachers in Computer Science, Marzena Professor Kryszkiewicz</td>
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<td>Edu113</td>
<td>Teaching Methods – Computer Science; Postgraduate Studies For Teachers in Computer Science, Zdzisław Nowakowski, MSc*</td>
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<td>Edu114</td>
<td>Teaching Methods – Information Technology; Postgraduate Studies For Teachers in Computer Science, Zdzisław Nowakowski, MSc*</td>
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<td>Windows Operating System; Postgraduate Studies For Teachers in Computer Science, Krzysztof Chabko, MSc</td>
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<td>Edu116</td>
<td>Word Processing and Desktop Publishing; Postgraduate Studies For Teachers in Computer Science, Cezary Stępień, PhD</td>
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<td>Edu117</td>
<td>Administration of Local Network, Postgraduate Studies in Computer Science, Krzysztof Chabko MSc</td>
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<td>Edu118</td>
<td>Basic Aspects of Telecommunications, Postgraduate Studies in Computer Science, Sławomir Kula, PhD</td>
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<td>Edu119</td>
<td>Computer Graphics; Postgraduate Studies in Computer Science, Cezar Stępień, PhD</td>
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<td>Computer Architecture; Postgraduate Studies in Computer Science, Grzegorz Mazur, MSc</td>
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<td>Data Bases; Postgraduate Studies in Computer Science, Wojciech Kamiński, MSc*</td>
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<td>Internet; Postgraduate Studies in Computer Science, Paweł Radziszewski MSc</td>
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<td>Edu126</td>
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4. RESEARCH PROJECTS

4.1. Projects granted by the University

4.1.1. Projects granted by the Dean of the Faculty of Electronics and Information Technology


4.2. Projects granted by the Ministry of Education and Science

[Pro4] Pawel Kerntopf, Professor – Head of the project No. N N516 418038; 17 May 2010 – 16 November 2012, “Synthesis of reversible logic circuits – new approaches and algorithms”, (in Polish – Projektowanie odwracalnych układów cyfrowych – nowe koncepcje i algorytmy). Abstract: Development of algorithms for designing reversible digital circuits, based on new concepts and determination of efficiency of these algorithms. It will be a continuation of previous theoretical research as well as construction of new design algorithms. Computer programs implementing developed algorithms will be written and then evaluated using benchmarks described in the literature. The results will include publications, two PhD theses and design tools for generating optimal circuits (for small number of variables) and quasi-optimal circuits (for large number of variables). Current results will be presented at international conferences and published in journals. A book describing state-of-the-art of designing reversible digital circuits, the first in Poland and one of a few in the world will be prepared. Collective project.

[Pro5] Henryk Rybiński, Professor – Head of the project No. N N516 432738; 20 April 2010 – 31 October 2012, “A hybrid method of indexing multiple-inheritance hierarchies in ontology”, (in Polish – Hybrydowa metoda indeksowania hierarchii dziedziczenia wielokrotnego w ontologiach). Abstract: The problem of efficient processing of the basic operations on ontologies, such as subsumption checking, or finding all subtypes of a given type, becomes of a very high importance. Currently, there are two main approaches addressing this issue. The first one uses numbering schemes, which are particularly effective in plain hierarchies having a mean number of parents per node close to one. The second approach bases on gene inheritance and it is especially useful for complex hierarchies which are not too deep. Our approach combines these two methods mentioned above, to achieve a better functionality and performance in terms of consumed memory and time.
required to search through and update the hierarchy. A significant advantage of our solution is its effectiveness independence of a hierarchy structure properties.

The aim of the project is to create a set of algorithms performing all needed operations, such as finding the latest common descendant or the greatest common ancestor, collecting all ancestors or descendants of a particular node, testing for inheritance relation between two nodes, as well as incremental encoding (updating, deleting and inserting nodes without recoding whole hierarchy). Participant: Jacek Lewandowski PhD Student.

Krzysztof Walczak, Professor – Head of the project No. N N516 531839; 22 September 2010 – 21 September 2012, “Design of experiments and genomic data analysis in array-based CGH technology”, (in Polish – Projektowanie eksperymentów i analiza danych genomowych w technologii mikromacierzy CGH). Abstract: The goal of the project is development of new algorithms for experiments made in aCGH technology (array-based Comparative Genomic Hybridization). aCGH was invented for high resolution detection of genomic copy number variations. This technology is commonly used in medicine, e.g. for discovering associations between diseases and DNA aberrations, as well as in diagnosis of genomic diseases. The project will focus on designing experiments and aCGH results processing. The PhD thesis will describe bioinformatics tools that are developed to support different stages of aCGH data processing. There will be presented conclusions pertaining to the process of designing CGH microarrays, which includes sequence analysis, probes selection and designs comparison. The proposals for new algorithms will be discussed in details in the context of existing solutions. Apart from experiment designs, the special attention will be devoted to the algorithms used for experiment results analysis. One of the most important stage in the data analysis is a process called segmentation, in which the aberrated regions in genome are detected. Next data with annotated regions can be used for classification in order to support the diagnosis. The thesis will present different approaches of experimental data processing. There will be described methods from the field of data mining and artificial intelligence, including Jumping Emerging Patterns (JEP), Hidden Markov Models(HMM) and Bayesian models. New algorithms will be compared to previously proposed methods. Finally, there will be shown a complete system for the analysis of aCGH data, which integrates developed algorithms. The conclusions from the design, implementation and its application to real data analysis will be summarized. Participant: Tomasz Gambin PhD Student.

4.4. Other projects

Strategic Project of NCBIR INFINITY-PASSIM - Interdisciplinary system for interactive scientific and technical information, 08.2010–08.2013, Professor Marzena Kryszkiewicz; Abstract: PASSIM is a part of the large scientific project, aiming to create a universal hosting and scientific content storage and sharing platform, financed by the National Centre for Research and Development. This project itself is one of the elements of a strategic research initiative “Interdisciplinary system for interactive scientific and technical information”. The project will be carried out in 2010-2013 by the research consortium directed by Warsaw University of Technology (Faculty of Electronics and Information Technology) and including Jagiellonian University, Scientific and Academic Computer Network (NASK), Military Technical Academy (WAT), Warsaw University (Faculty of Mathematics,
Computer Science and Mechanics), National Library and Lazarski University. Second part of the aforementioned research initiative is Project INFINITY, carried out by the consortium led by Interdisciplinary Centre for Mathematical and Computational Modelling of the Warsaw University.

[Pro8] Dominik Ryżko, PhD, Head of the project “Analysis of methodologies for user identification and authorization in financial services environment based on SOA paradigms and standards. Recommendation of security policy i.e. methods for implementation of user identification and authorization in Oracle SOA Suite (BPM, OSB, BR) with the use of WS Security and WS Policy standards”, (in Polish – Analiza metod identyfikacji i autoryzacji użytkowników w środowisku realizacji usług finansowych opartych o paradygmaty i standardy SOA. Rekomendacja polityki bezpieczeństwa tj. metod implementacji identyfikacji i autoryzacji użytkowników w środowisku opartym o Oracle SOA Suite (BPM, OSB, BR) z wykorzystaniem standardów WS Security, WS Policy). Project for SOFTMAN S.A. Abstract: The project aims at development of methodologies for identification and authorization of users in SOA architecture based on Oracle tools with the use of WS Security and WS Policy standards. Recommendations for implementation of this policy will also be introduced. 02 May 2012 – 31 May 2012. Collective project.


[Pro11] Mieczysław Muraszkiewicz, Professor – Head of the project No. 38/012 “Development of convergent services WebServices/Telco based on the TP/Orange Network in the frame of the project ‘Open Middleware 2.0 and API Telco 2.0”, (in Polish – Tworzenie konwergentnych usług Web Services/Telco w oparciu o sieć TP/Orange w ramach projektu Open Middleware 2.0 i API Telco 2.0). Project for Telekomunikacja Polska S.A. Abstract: (1) Definition of (i) innovative architectures of mediation platforms, (ii) technical assessments of the proposed solutions in the context of Open Middleware 2.0 and API Telco 2.0. (2) (i) Cost-benefits analysis of the proposed solutions in the area of
Open Middleware 2.0 and API Telco 2.0. (ii) BSc and MSc theses. 19 June 2012 – 31 January 2013.

Research groups from the Institute of Computer Science participate also in the following research projects led by persons from other institutes of WUT:

[Pro12] Project – Future Internet Engineering (Inżynieria Internetu Przyszłości) - http://www.iip.net.pl/, w ramach projektu innowacyjna gospodarka, supervisor from Institute of Telecommunication: Józef Lubacz, participant from Institute of Computer Science: Krzysztof Cabaj.

[Pro13] Project – Eco-Mobility. A team from Institute of Computer Science is involved in the project Eco-Mobility, 85% co-financed by European Regional Development Fund within the Innovative Economy Programme. The project coordinator is Professor W. Choromański from the Faculty of Transport. The team composed of A. Derezińska, W. Daszczyk, H. Dobrowolski, W. Grabski, J. Mieścicki, A. Pająk and J. Wytrębowicz deals with the concept and design of computer system within Task I – PRT (Personal Rapid Transit), the automated system for urban passenger transportation. Project completion is scheduled for 2013.

[Pro14] Zbigniew Szymanski is involved in the “Warsaw University of Technology Development Programme” project (No: 20 UDA-POKL.04.01.01-00-002/08-00) task 20 “Long-term placements for students of the Faculty of Electronics and Information Technology Warsaw University of Technology”. Zbigniew Szymanski deals with the current administration of the web site (praktyki.elka.pw.edu.pl) concerning task 20 and performs necessary modifications of the site content. His duties include: modifications of the page content, monitoring of the application used for the implementation and publication of announcements, solving of the problems concerning publication of announcements, introducing necessary modifications to the application used for entering and publishing of the announcements.

[Pro15] A team: Waldemar Grabski, Jerzy Mieścicki, leaded by Wiktor Daszczuk, participate in Eco-Mobility Project. The project is run at the Faculty of Transport, WUT, and in cooperation with several other faculties. The aim of the team from the Institute of Computer Science is to build a simulation environment for analysis of traffic in Personal Rapid Transit systems, modelling and simulation experiments on Personal Rapid Transit systems.

[Pro16] Janusz Sosnowski has been involved in the project “MAYDAY EURO 2012” Supercomputer platform for contextual analysis of multimedia data streams targeted at identification of specified objects or dangerous events. The project has been supervised by Gdańsk University of Technology. The main contribution related to the methodology of monitoring cluster platform KASKADA and multimedia data stream processing [Pub23].

[Pro17] The project has been initiated by the Mazovia Region Development Strategy, which indicates the need for a system of teacher education and the implementation of innovative approaches and methods of teaching. It aims at building a system for teacher education and the implementation of innovative approaches and methods of teaching. A major problem is the poor preparation of teachers to use ICT in the educational process. The project will help to fill gaps in succumbing to rapid obsolescence of knowledge in the field of electronic and in the application of information technology in education. Training on equal opportunities for teachers
to gender realizes their role in breaking stereotypes about gender and the potential ability of deepening girls interest in technical studies. Leader R. Kożuszek

4.5. International co-operation

[IC1] EU-CANADA EACEA/HRSDC Transatlantic Exchange Program (TEP), Project Partner: Professor Marzena Kryszkiewicz, September 2008 – April 2012.

[IC2] EU-CANADA EACEA/HRSDC Transatlantic Exchange Program (TEP), visit of prof. Marzena Kryszkiewicz to York University, Toronto, Canada, within the faculty exchange component of TEP, February 16 – March 4, 2012.

[IC3] EU-CANADA EACEA/HRSDC Transatlantic Exchange Program (TEP), visit of dr Roman Podraza to York University, Toronto, Canada, within the faculty exchange component of TEP, March 18-31, 2012.


[IC6] Visit of Michał Okoniewski, PhD, from Functional Genomics Center Zurich, Uni/ETH Zurich Department for Clinical Neuroimmunology and Multiple Sclerosis Research, UniSpital Zurich, 6 December 2012, invited lecture “Metody obliczeniowe bioinformatyki transkryptomowej”.

[IC7] Visit of Professor Janusz Zalewski from Dept. of Software Engineering Florida Gulf Coast University, USA, May 2012 – meeting devoted to historical documents regarding Polish contributions to computing.

[IC8] Visit of Professor Janusz Zalewski from Dept. of Software Engineering Florida Gulf Coast University, USA, September 6–17 – Discussions on offering Web-based Courses and Fault injection tools.

[IC9] Visit of Professor Christophe Wolinski from Universite Rennes, Equipe Projet CAIRN IRISA – creating a plan of future cooperation in the area of research and student exchanges. Coordinating person prof. J. Sosnowski.
5. TITLES AND DEGREES AWARDED

5.1. Professor Titles

[Prof1] Zbigniew Raś – received the title of professor of technical sciences, Warsaw, August 7, 2012

5.2. DSc Degrees


5.3. PhD Degrees


[PhD5] Jarosław Konrad Lipowski, D-buffer: acceleration and reduction of memory requirements in visualization algorithms through gathering and ordering of irregular frame buffers, supervisor: Professor Przemysław Rokita, Warsaw, June 2012.


### 5.4. MSc and BSc Degrees

For each BSc and MSc thesis listed below, the name of the scientific supervisor and the final grade awarded by the reviewers follow the author’s name and the title of the thesis. The notes are provided in parentheses. They range from (excellent) through 5 (very good), 4 (good), to 3 (acceptable), with possible values in between (e.g., 4.5). The theses are generally written in Polish and they are available in the library of the Institute. The theses marked with an asterisk (*) are written in English.

[MSc1] **Adamek Marek**, *The concept of a dynamic system for use in software engineering* (in Polish – Koncepcja dynamicznego systemu dla zastosowań w inżynierii oprogramowania), supervisor: **Jan Mulawka**, (4,5)

[MSc2] **Augustyński Marcin**, *Ruby code generation based on UML class diagrams* (in Polish – Generacja kodu języka Ruby z diagramów klas UML), supervisor: **Ilona Bluemke**, (excellent)


[MSc4] **Boruta Przemysław**, *Fault detection and tolerance mechanisms for the AIX operating system and IBM Power platform* (in Polish – Mechanizmy odporności na błędy sprzętu na platformie IBM Power), supervisor: **Piotr Gawkowski**, (4)

[MSc5] **Budzyński Michał**, *System for evaluation of load balancing strategies in file redistribution system based on peer to peer architecture*, supervisor: **Michał Nowacki**, (4)*

[MSc6] **Burakowski Grzegorz**, *HTML5-based Digital Audio Workstation*, supervisor: **Piotr Gawrysiak**, (5)*

[MSc7] **Byczuk Maciej**, *A private cloud based on the OpenNebula toolkit*, supervisor: **Mieczysław Muraszkiewicz**, (5)*

[MSc8] **Byszewski Paweł**, *Continuous work. Unification issues of Data Spaces, keeping continuity of work and elements of smart buildings on example of system that supports work environment migration* (in Polish – Praca ciągła. Unifikacja zagadnień zachowania ciągłości pracy, przestrzeni danych oraz elementów inteligentnego otoczenia na przykładzie systemu wspierającego migrowanie środowiska pracy), supervisor: **Piotr Gawrysiak**, (5)

[MSc9] **Cegieński Michał**, *Exploiting contextual information acquired from smartphones and web services for higher-level data* (in Polish – Wykorzystywanie informacji kontekstowych uzyskanych ze smartphone’ów i usług internetowych do wysoko poziomowej nalizy), supervisor: **Michał Nowacki**, (4)

[MSc10] **Ciechańska Katarzyna**, *The efficient SMTP protocol filter* (in Polish – Wydajny filtr SMTP), supervisor: **Grzegorz Blinowski**, (4,5)
[MSc11] **Dąbrowski Tomasz**, *Artificial intelligence module in computer implementations of classic strategic games* (in Polish – Moduł sztucznej inteligencji w komputerowych implementacjach klasycznych gier strategicznych), supervisor: **Dominik Ryżko**, (5)

[MSec12] **Denek Piotr Jan**, *Author Name Disambiguation in documents from a virtual library* (in Polish – Rozróżnianie autorów dokumentów na podstawie metadanych), supervisor: **Piotr Gawrysiak**, (5)

[MSec13] **Dutkiewicz Hanna Dorota**, *Studies on the impact of stereo correspondence and skin detection algorithms on speed and reliability of 3D hand movement modelling* (in Polish – Badanie wpływu algorytmów stereo dopasowania i wykrywania skóry na szybkość i niezawodność modelowania trajektorii 3D ruchu dłoni), supervisor: **Krzysztof Chabko**, (5)

[MSec14] **Dybiec Sławomir Paweł**, *Evolutionary design of microwave low-pass filters realized in microstrip line technology* (in Polish – Ewolucyjne projektowanie mikrofalowych filtrów dolnoprzepustowych w technologii linii mikropaskowej), supervisor: **Jarosław Dawidczyk**, (5)

[MSec15] **Dziedzicki Rafał**, *Design and implementation of a prototype of alumni management system on the Faculty of Electronics and Information Technology* (in Polish – Projekt oraz implementacja prototypu system do współpracy z absolwentami na Wydziale Elektroniki i Technik Informacyjnych), supervisor: **Mieczysław Muraszkiewicz**, (5)


[MSec19] **Gocal Marcin**, *Prediction market application on facebook platform* (in Polish – Aplikacja rynku przewidywań na platformie Facebook), supervisor: **Piotr Gawrysiak**, (5)

[MSec20] **Grydziuszko Karol**, *Car body visualization using programmable graphic card* (in Polish – Zawansowane sposoby prezentacji nadwozia samochodu z wykorzystaniem programowalnych kart graficznych), supervisor: **Tomasz Martyn**, (5)

[MSec21] **Jaklik Krzysztof**, *Presentation and analysis of cloud computing based solutions* (in Polish – Przedstawienie i analiza rozwiązań opartych o przetwarzanie w chmurze), supervisor: **Julian Myrcha**, (4)

[MSec22] **Janikowski Stanisław Aleksander**, *Adaptation of multimedia streams by providing seamless handover* (in Polish – Adaptação strumieni multimedialnych poprzez zapewnienie płynnego przełączania), supervisors: **Wojciech Burakowski, Jordi Mongay Batalla**, (5)
[MSc23] **JARKA MACIEJ**, *Discovery of frequent itemsets in dynamic data streams*, supervisors: **Roman Podraza**, (5)

[MSc24] **JUREWICZ WOJCIECH**, *The automatization of the digital resources descriptive metadata creation process based on descriptions within textual documents* (in Polish – Automatyzacja tworzenia metadanych opisowych zasobów cyfrowych na podstawie opisów w formatach edytorów tekstu), supervisors: **Tomasz Traczyk**, (4,5)

[MSc25] **KAPICA PAWEŁ**, *Platform virtualization in x86 architecture* (in Polish – Wirtualizacja platform w architekturze x86), supervisor: **Tomasz Jordan Kruk**, (excellent)

[MSc26] **KAMELAK MARIUSZ**, *Internet application security* (in Polish – Bezpieczeństwo aplikacji internetowych), supervisor: **Julian Myrcha**, (3,5)

[MSc27] **KŁAPACIŃSKA ALEKSANDRA ANNA**, *System for structured storage of documents* (in Polish – System do ustrukturalizowanego przechowywania dokumentów), supervisor: **Ilona Bluemke**, (excellent)

[MSc28] **KOGUT TOMASZ PIOTR**, *Brokering platform for heterogeneous information sources* (in Polish – Platforma brokerska dla niejednorodnych źródeł informacji), supervisor: **Dominik Ryżko**, (5)

[MSc29] **KOLODZIEJSKI MICHAŁ**, *The research on applicability of data obtained from smartphone to construct a context model in context-a ware systems* (in Polish – Badanie możliwości zastosowania danych pozyskanych ze smartphone’a do budowy modelu kontekstu w systemach świadomych kontekstu), supervisor: **Piotr Gawrysiak**, (5)


[MSc32] **KRYGIEL KRZYSZTOF**, *Web application for interactive transformation of context-free grammars and generation of parsers tables* (in Polish – Serwis internetowy do interakcyjnej transformacji gramatyk bezkontekstowych i generacji tabel parserów), supervisor: **Andrzej Pająk**, (4,5)

[MSc33] **KRZEŚNIAK MICHALINA**, *Giving buy/sell recommendations based on articles coming from websites with use of sentiment analysis* (in Polish – Generowanie rekometacji giełdowych na podstawie informacji z serwisów internetowych z wykorzystaniem analizy sentymentalnej), supervisor: **Grzegorz Protaziuk**, (excellent)


[MSc35] **KUKOLOWICZ KAMIL**, *Usage of hop-by-hop header for transmission of control information in wireless ad-hoc networks* (in Polish – Wykorzystanie nagłówka hop-by-hop protokołu IPv6 do transport wiadomości kontrolnych w bezprzewodowych sieciach ad-hoc), supervisor: **Paweł Radziszewski**, (4,5)

[MSc37] **Li Jing**, *Partitioning in Oracle11g Database: The assessment of potential and actual benefits*, supervisor: **Michal Rudowski**, (4)*

[MSc38] **Machoń Jakub**, *Visual programming application for mobile devices* (in Polish – *Aplikacja programowania graficznego dla urządzeń mobilnego*), supervisor: **Piotr Gawrysiak**, (5)


[MSc40] **Mateja Andrzej**, *Examination of the impact of transmitted signal shape on the result of its correlation with received signal* (in Polish – *Badanie wpływu kształtu sygnału nadawanego w wyniku korelacji z sygnałem odbieranym*), supervisor: **Tomasz Czarnecki**, (4,5)

[MSc41] **Mielcarski Wiktur**, *Fractal adaptive level of detail in real time* (in Polish – *Adaptacyjny poziom szczegółowości fraktali IFS w czasie rzeczywistym*), supervisor: **Tomasz Martyn**, (5)

[MSc42] **Mielnicki Mateusz**, *Duplicates and near duplicates management of graphics files* (in Polish – *Zarządzanie duplikatami i prawie duplikatami plików graficznych*), supervisor: **Jerzy Chrząszcz**, (5)

[MSc43] **Misiukonis Michal**, *Examining the possibility of using social networking systems in order to build a strong mechanism of interaction between the Faculty and its students and devising its prototype* (in Polish – *Zbadanie możliwości wykorzystania systemów społecznościowych dla zbudowania silnego mechanizmu interakcji Wydziału z jego studentami oraz wykonanie prototypu*), supervisor: **Mieczysław Muraszkiewicz**, (5)

[MSc44] **Moderau Miron**, *Animation control using web camera* (in Polish – *Sterowanie animacją przy użyciu kamery internetowej*), supervisor: **Przemysław Rokita**, (excellent)


[MSc47] **Nikiel Tomasz**, *Physics engines comparison in the context of rigid body dynamics and collisions detection* (in Polish – *Porównywanie bibliotek do symulacji zderzeń sprężystych i wykrywania kolizji w czasie rzeczywistym*), supervisor: **Witold Ladyński-Wysota**, (excellent)

[MSc48] **Obel Ziemowit**, *Sensor fusion in augmented reality system for mobile* (in Polish – *Wykorzystanie fuzji sensorów w systemie rzeczywistości rozszerzonej dla urządzeń mobilnych*), supervisor: **Piotr Gawrysiak**, (excellent)
[MSc49] **OGÓRKIS STANISLAW**, *Video compression in Linux* (in Polish – Kompresja sekwencji wideo w systemie Linux), supervisor: **Julian Myrcha**, (5)

[MSc50] **PAPROCKI PRZEMYSŁAW ADAM**, *Modernization of the CERN’s Geant4 software configuration management system* (in Polish – Modernizacja systemu zarządzania konfiguracją Geant4 w CERN), supervisor: **Iłona Bluemke**, (excellent)

[MSc51] **PASZNIK PAWEŁ GRZEGORZ**, *Pattern recognition algorithms using GPGPU computations* (in Polish – Algorytmy rozpoznawania obrazów wykorzystujące przetwarzanie GPGPU), supervisor: **Rajmund Kożuszek**, (5)

[MSc52] **POLATYŃSKI ANDRZEJ**, *Reliable computing in grid environment* (in Polish – Obliczenia rzetelne w środowisku gridowym), supervisor: **Bartłomiej Jacek Kubica**, (4,5)

[MSc53] **RAŚ KAMIL**, *Application of evolutionary algorithms to optimize fuzzy sets in the system for predicting stock prices* (in Polish – Zastosowanie algorytmów ewolucyjnych do optymalizacji zbiorów rozmytych w systemie do predykcji kursu akcji), supervisor: **Jarosław Dawidecyz**, (excellent)

[MSc54] **REBIŚ TOMASZ**, *ETL engine* (in Polish – Silnik ETL), supervisor: **Piotr Gawrysiak**, (excellent)


[MSc56] **SENeczko PRZEMYSŁAW JERZY**, *Prototypical kernel mode fault injection tool for 32-bit Linux* (in Polish – Prototypowy symulator błędów w trybie jądra 32-bitowego system Linux), supervisor: **Piotr Gawkowski**, (5)

[MSc57] **SERedyŃski DAWID**, *Control system of two-wheeled mobile robot with two modes of locomotion* (in Polish – System sterowania dwukołowym robotem mobilnym o zmiennym sposobie lokomocji), supervisor: **Tomasz Winiarski**, (excellent)

[MSc58] **SIIUdZIŃski JAKub**, *Mining from partial knowledge* (in Polish – Wnioskowanie z wiedzy niepełnej), supervisor: **Marek Kryszkiewicz**, (excellent)


[MSc60] **SłOdownik Adrian**, *Use of differential evolution algorithm for optimization of least-square support vector machines in regression and classification* (in Polish – Wykorzystanie algorytmu ewolucji różnicowej do doboru hiperparametrów sterujących średniokwadratowej maszyny wektorów nośnych w regresji i klasyfikacji), supervisor: **Zbigniew Szymański**, (4,5)

[MSc61] **STEPanIak PIOTR**, *A two camera system for reconstruction of 3d coordinates of light sources* (in Polish – Dwukamerowy system rekonstrukcji współrzędnych 3d źródeł światła), supervisor: **Jan Zabrodzki**, (excellent)

[MSc62] **SUrowIECKI Rafał**, *Classification of sequential data* (in Polish – Klasyfikacja danych sekwencyjnych), supervisor: **Krzysztof Walczak**, (5)
[MSc63] Syroka Leszek, Autonomous vehicle simulator based on stereovision images (in Polish – Badanie wpływu algorytmów przetwarzania obrazów na działanie symulatora pojazdu autonomicznego), supervisor: Krzysztof Chabko, (excellent)

[MSc64] Świniarski Karol, SailingMaster – sailboat simulator (in Polish – SailingMaster – symulator jachtu żaglowego), supervisor: Tomasz Martyn, (4)

[MSc65] Szalast Tomasz, Software environment to learn basic algorithms of artificial intelligence (in Polish – Środowisko programowe do nauki podstawowych algorytmów sztucznej inteligencji), supervisor: Piotr Parewicz, (5)

[MSc66] Szlenbaum Dominik Tadeusz, The use of global optimization methods for MOS parameters extraction (in Polish – Wykorzystanie metod optymalizacji globalnej w ekstrakcji parametrów tranzystora MOS), supervisor: Jarosław Arabas, (5)

[MSc67] Trybek Weronika, Production planning in multiagent system (in Polish – Planowanie produkcji w systemie wieloagentowym), supervisor: Dominik Ryżko, (5)

[MSc68] Tuczapski Tomasz, Implementation and management of computing cloud with virtualization technology (in Polish – Implementacja i zarządzanie chmurą obliczeniową z uwzględnieniem technik wirtualizacji), supervisor: Mieczysław Muraszkiewicz, (3,5)

[MSc69] Tulwin Rafal, Irp-6 manipulator trajectory optimization based on state feedback (in Polish – Optymalizacja trajektorii w manipulacyjnym systemie robotycznym Irp-6 przy użyciu danych uzyskiwanych on-line), supervisor: Tomasz Winiarz, (3,5)

[MSc70] Turczyński Damian, Computer – user interface optimization using GPU (in Polish – Optymalizacja interfejsu komputer-użytkownik z użyciem procesora graficznego), supervisor: Krzysztof Gracki, (4,5)

[MSc71] Wachulski Marcin Filip, Implementation of inherence calculus in the PowerLoom environment (in Polish – Implementacja rachunku inherencji w środowisku PowerLoom), supervisor: Jan Mulawka, (excellent)


[MSc73] Wodziński Tomasz Marcin, The software life cycle optimization for care and delivery of efficient information systems (in Polish – Optymalizacja cyklu życia oprogramowania pod kątem dostarczania oraz pielęgnacji wydajnych systemów informatycznych), supervisor: Artur Krystosiak, (3,5)

[MSc74] Wołosewicz Anna Katarzyna, The analysis of application event logs in Windows (in Polish – Analiza dzienników aplikacji w systemie Windows), supervisor: Janusz Sosnowski, (5)

[MSc75] Wójcik Michał, Detection of relevant and irrelevant web pages’ parts (in Polish – Wykrywanie istotnych i nieistotnych fragmentów stron WWW), supervisor: Piotr Gawrysiak, (excellent)

[MSc76] Wyrzykowski Marcin, Discovery of graph patterns, association rules and theirs concise representations (in Polish – Odkrywanie grafowych wzorców, reguł asocjacyjnych i ich reprezentacji), supervisor: Marzena Kryszkiewicz, (excellent)
[MSc77] **WYSOCKI Michal Krzysztof**, System for monitoring and management of tests based on TTCN-3 (in Polish – System monitorowania i zarządzania wykonaniem testów opartych o TTCN-3), supervisor: **Ilona Bluemke**, (4,5)

[MSc78] **ZAWADZKI Jakub**, Modular battery analyser, supervisor: **Janusz Rzeszut**, (5)*

[MSc79] **ZUBRZYCKI Mariusz**, Modelling of surface phenomena in simulations of liquid (in Polish – Modelowanie zjawisk powierzchniowych w symulacjach cieczy), supervisor: **Jacek Raczkowski**, (excellent)

[MSc80] **ŻUKOWSKI Andrzej**, Strukture and performance of applications based on SOA (in Polish – Budowa i wydajność aplikacji opartej o SOA), supervisor: **Roman Podraza**, (5)

[BSc1] **ADAMIEC Tomasz**, Product ingredients analyser – mobile application analysing product content, supervisor: **Robert Bembenik**, (5)*


[BSc4] **BARCZYK Zbigniew Pawel**, Requirements management tool (in Qt) (in Polish – System do zbierania i zarządzania wymaganiami (realizacja w Qt), supervisor: **Julian Myrcha**, (5)


[BSc6] **Bawej Tomasz Adrian**, Game artificial intelligence algorithms (in Polish – Algorytmy sztucznej inteligencji w sterowaniu postaciami i obiektami w grach komputerowych), supervisor: **Krzysztof Gracki**, (4,5)

[BSc7] **BAZYLEWICZ Arkadiusz**, ARES modules implementation in SOA architecture (in Polish – Implementacja modułów systemu ARES w architekturze SOA), supervisor: **Roman Podraza**, (5)

[BSc8] **BIEŁAWSKI Aleksander Jan**, Uninitialized field access detection in Scala language using static code analysis (in Polish – Wykrywanie dostępu do niezainicjalizowanych pól składowych w języku Scala, przy pomocy statycznej analizy kodu), supervisor: **Piotr Kołaczkowski**, (5)


[BSc12] **DOMARADZKI JAKUB**, Modelling of snow deposition phenomena in 3ds Max program (in Polish – Modelowanie zjawiska osadzania się śniegu w programie 3ds Max), supervisor: Cezary Stępień, (excellent)

[BSc13] **DRĄŻKIEWICZ KATARZYNA**, Modelling different vehicle suspension types using 3ds Max Reactor (in Polish – Tworzenie modeli różnych typów zawieszenia pojazdów mechanicznych z użyciem system 3ds Max Reactor), supervisor: Cezary Stępień, (5)

[BSc14] **DŻAMAN MICHAŁ MARCIN**, Hard drive monitoring and state acquisition system (in Polish – System monitorowania i akwizycji stanu dysków twardych), supervisor: Piotr Gawkowski, (5)

[BSc15] **GASZYŃSKI PIOTR**, Point-based graphics visualization engine, supervisor: Tomasz Martyn, (5)*


[BSc17] **GECOW MARCIN**, Modelling and animation of steam locomotive valve gear in 3ds Max (in Polish – Modelowanie i animacja układów napędowych parowozów w programie 3ds Max), supervisor: Cezary Stępień, (5)

[BSc18] **GŁODEK JACEK**, Tools supporting agile project management methodologies (in Polish – Narzędzia wspomagające zwinne metodyki zarządzania projektem informatycznym), supervisor: Jacek Wytrębowicz, (5)

[BSc19] **GODELREW LUKASZ**, Human behaviour recognition on video using fuzzy logic (in Polish – Rozpoznawanie zachowania ludzi na nagraniu wideo z zastosowaniem logiki rozmytej), supervisor: Bohdan Butkiewicz, (4,5)


[BSc21] **GÓRA MATEUSZ RYSZARD**, MMO augmented reality game for the Android platform (in Polish – Gra typu MMO z elementami augmented reality na platformę Android), supervisor: Jakub Koperwas, (5)

[BSc22] **GÓRNICKI MARCIN**, Web application for mind mapping with real-time team collaboration (in Polish – Aplikacja internetowa do tworzenia map myśli ze współpracą grupową w czasie rzeczywistym), supervisor: Jacek Lewandowski, (excellent)


[BSc25] **GUMOWSKI PIOTR**, The mechanism of storing data in Java Content Repository using NoSQL databases (in Polish – Mechanizm utrwalania danych w repozytorium treści Java Content Repository w oparciu o bazy typu NoSQL), supervisor: Jakub Koperwas, (5)

[BSc27] **Hazan Rafał**, *Researcher’s homepages identification and information extraction from them* (in Polish – Identyfikacja stron domowych ludzi nauki i wydobywanie z nich informacji), supervisor: Piotr Andruszkiewicz, (5)

[BSc28] **Ho Quyen**, *Online store developed in ASP.NET MVC technology* (in Polish – Opracowanie aplikacji: sklep internetowy w technologii ASP.NET MVC), supervisor: Julian Myrcha, (3)

[BSc29] **Hucal Tadeusz**, *Subspace video stabilization system* (in Polish – System stabilizacji sekwencji wideo metodą podprzestrzeni), supervisor: Krzysztof Chabko, (5)

[BSc30] **Jabłoński Szymon Andrzej**, *The game engine that allows the destruction of three-dimensional scenes in real time* (in Polish – Silnik gry trójwymiarowej umożliwiający destrukcję sceny w czasie rzeczywistym), supervisor: Tomasz Martyn, (5)

[BSc31] **Jagiello Tomasz**, *Video sequence editor* (in Polish – Edytor sekwencji wideo), supervisor: Krzysztof Chabko, (4)

[BSc32] **Januszewski Michał**, *Internet ad filtration system* (in Polish – System filtracji reklam internetowych), supervisor: Mieczysław Muraszkiewicz, (5)

[BSc33] **Jasiński Mariusz**, *Shape matching with contour descriptor* (in Polish – Porównywanie kształtów przy pomocy deskryptora konturu), supervisor: Krzysztof Walczak, (5)

[BSc34] **Jastrzębski Piotr Krzysztof**, *Simple digital circuit diagrams vectorization* (in Polish – Wektoryzacja prostych schematów układów cyfrowych), supervisor: Jan Zabrodzki, (4)


[BSc37] **Karolewski Rafał**, *Implementation of the evolutionary algorithm on programmable graphics processing units using parallel computing architecture Nvidia CUDA* (in Polish – Realizacja algorytmu ewolucyjnego na programowalnych jednostkach przetwarzania graficznego z wykorzystaniem równoległej architektury obliczeniowej Nvidia CUDA), supervisor: Zbigniew Szymański, (5)

[BSc38] **Kącka Joanna**, *Hiding information in TCP receive window* (in Polish – Ukrywanie informacji za pomocą okna odbiorczego TCP), supervisor: Paweł Radziszewski, (4)

[BSc39] **Kielbaszewski Bartosz Mateusz**, *A helper application for learning to play on an electronic keyboard instrument* (in Polish – Aplikacja ułatwiająca naukę gry na elektronicznym instrumencie klawiszowym), supervisor: Jacek Raczkowski, (4)
[BSc40] Kmieć Paweł Jan, *Comparison of selected algorithms for clustering sequential data* (in Polish – Porównanie wybranych algorytmów grupowania danych sekwencyjnych), supervisor: Krzysztof Walczak, (excellent)

[BSc41] Kopertowska Anna, *Didactic software supporting construction and verification of knowledge bases for requesting system* (in Polish – Oprogramowanie dydaktyczne wspomagające konstruowanie i weryfikację baz wiedzy dla system wnioskującego), supervisor: Piotr Parendz, (5)


[BSc46] Król Piotr, *Aggregated e-mail statistics for Microsoft Outlook 2010* (in Polish – Statystyki zbiorcze wiadomości e-mail dla Microsoft Outlook 2010), supervisor: Jerzy Chrząszcz, (5)


[BSc50] Latosiński Piotr, *Analysis of e-mail handling on system bolek* (in Polish – Analiza obsługi poczty w systemie bolek), supervisor: Janusz Sosnowski, (excellent)


[BSc52] Lewandowski Marcin, *The computer system for the service of laboratory stand* (in Polish – Komputerowy system obsługi stanowiska laboratoryjnego), supervisor: Henryk Kowalski, (excellent)

LIEBER KRYSIANT, Set of SML3 modules implementing fast serial interconnect protocols (in Polish – Zestaw modułów SML3 wspomagających modelowanie szybkich interfejsów szeregowych), supervisor: Marek Pawłowski, (5)

LITWINIUK PIOTR, Graphical LED display with multiple primary colours (in Polish – Wyświetlacz graficzny LED o wielu kolorach składowych), supervisor: Grzegorz Mazur, (excellent)

LUDWIG BARTOSZ, Accessing data in the cloud through a filesystem (in Polish – Sieciowy system plików jako metoda dostępu do zasobów w chmurze), supervisor: Tomasz Jordan Kruk, (5)


MARCINKOWSKI WOJcieCH, Application to process pictures of eye bottom with neural networks (in Polish – Aplikacja do przetwarzania obrazów dna oka za pomocą sieci neuronowych), supervisor: Zbigniew Szymański, (3,5)

MAZUR KAcper, Using the mobile application to supervise location of children (in Polish – Użycie aplikacji mobilnej do monitorowania położenia dzieci), supervisor: Waldemar Grabski, (5)

MAKOSA GRZEgorz, Support system for the social legislative acts creation process – an application in three-tier architecture (in Polish – System wspierania procesu społecznościowego tworzenia aktów legislacyjnych – aplikacja w architekturze trójwarstwowej), supervisor: Jarosław Dawidczyk, (5)

MICHALOWSKI ANDREJ, Application of NVIDIA CUDA architecture in steganography (in Polish – Zastosowanie architektury NVIDIA CUDA w steganografii), supervisor: Paweł Radziśewski, (5)

MIZERA MICHAL, Mixed reality based game development (in Polish – Tworzenie gier wideo z wykorzystaniem rzeczywistości mieszanej), supervisor: Tomasz Martyn, (5)

MOMOT DAMIAN, Asynchronous architecture for publication data harvesting (in Polish – Asynchroniczna architektura akwizycji i przetwarzania danych publikacji naukowych), supervisors: Przemysław Więch, Piotr Kołaczkowski, (5)

MULTARZYŃSKI MAREK, Design and construction of BMS controller equipped with interfaces LON, MODBUS, BACnet, M-BUS and KNX (in Polish – Projekt i realizacja sterownika BMS wyposażonego w interfejsy LON, MODBUS, BACnet, M-BUS oraz KNX), supervisors: Kamil Kompa, (excellent)

NALEńCZ KATARZYNA MARIA, Implementation of tracking algorithm in distributed data fusion system (in Polish – Implementacja algorytmu śledzenia w rozproszonym systemie fuzji danych), supervisor: Robert Nowak, (5)

NAWALANY JOANNA, Implementation of a department’s server-client android mobile application (in Polish – Implementacja aplikacji klienckiej serwera wydajnego pod kontrolą system Android), supervisor: Łukasz Skonieczny, (5)

NAZIMEK MARCIN, A web application for management of a film and photography agency (in Polish – Aplikacja internetowa wspierająca zarządzanie agencją filmowo-fotograficzną), supervisor: Jakub Koperwas, (4,5)
[BSc68] **OBRYCKI DAVID**, Development of a program intended to collect measured data from the scales (in Polish – Opracowanie programu przeznaczonego do zbierania danych pomiarowych z wag), supervisor: **Rajmund Kożuszek**, (excellent)

[BSc69] **OCET WIKTOR ALEKSANDER**, Development of the mobile application supporting the learning process of foreign languages vocabulary for the android system (in Polish – Tworzenie aplikacji mobilnej wspomagającej naukę słów języków obcych pod system Android), supervisor: **Julian Myrcha**, (5)

[BSc70] **OCZKO MACIEJ**, Client honeypot in virtual environment (in Polish – Kliencki honeypot w środowisku wirtualnym), supervisor: **Krzysztof Cabaj**, (5)

[BSc71] **OŚOJCA DAWID**, Application supporting malware analysis using the Xen hypervisor (in Polish – Aplikacja wspierająca analizę złośliwego oprogramowania w oparciu o monitor maszyn wirtualnych Xen), supervisor: **Krzysztof Cabaj**, (excellent)


[BSc74] **PAKULSKA KATARZYNA HALINA**, GPU usage in algorithms of data mining (in Polish – Wykorzystanie GPU w algorytmach eksplozacji danych), supervisor: **Łukasz Skonieczny**, (5)

[BSc75] **PAKUL Aadam**, Slit-scan special effects generator – application in Java (in Polish – Generator efektu specjalnego slit-scan – aplikacja w języku Java), supervisor: **Piotr Witoński**, (5)

[BSc76] **PANEK ŁUKASZ**, Reconstruction of three-dimensional face geometry based on two photographs (in Polish – Rekonstrukcja trójwymiarowej geometrii twarzy na podstawie pary zdjęć), supervisor: **Przemysław Rokita**, (excellent)

[BSc77] **PASZKIEWICZ RAFAL**, Congestion control mechanisms in a TCP/IP network (in Polish – Mechanizmy unikania przeciążenia w sieci TCP/IP), supervisor: **Paweł Radziszewski**, (5)


[BSc79] **PEKALSKI PIOTR**, Tool to support group operations on files (in Polish – Narzędzie do wspomagania operacji grupowych na plikach), supervisor: **Jerzy Chrząszcz**, (3,5)

[BSc80] **PIECZAREK TOMASZ**, SMTP gateway for e-mail encryption in S/MIME standard (in Polish – Bramka protokołu SMTP, szyfrująca przesyłki w standardzie S/MIME), supervisor: **Grzegorz Blinowski**, (4,5)

[BSc81] **PIETRZYK PIOTR**, Disaster recovery centre with virtualization technology usage in small size company (in Polish – Zapasowe centrum danych w przedsiębiorstwie małej wielkości z wykorzystaniem technologii wirtualizacji), supervisor: **Rajmund Kożuszek**, (4)
[BSc82] **PODKOŃSKI RAFAL**, *BDI agent framework* (in Polish – Platforma do tworzeniaagentów inteligentnych o architekturze BDI), supervisor: **Krzysztof Gracki**, (4,5)

[BSc83] **RADZIEJEWSKI RAFAL**, *Computer based real time heart beat detection system* (in Polish – Komputerowy detektor pobudzeń serca w czasie rzeczywistym), supervisor: **Henryk Kowalski**, (excellent)


[BSc85] **RÓŻ PIOTR**, *Classification of RNA secondary structures* (in Polish – Automatyczne odtwarzanie klas na podstawie struktur drugorzędowych RNA), supervisor: **Robert Nowak**, (4,5)


[BSc87] **RZĄCA GRZEGORZ**, *Contactless laptop computer interface using built-in camera* (in Polish – Bezdotykowy interfejs do komputera typu laptop z wykorzystaniem wbudowanej kamery), supervisor: **Kamil Kompa**, (4,5)

[BSc88] **SADOWSKI PIOTR**, *Elaboration of the set of database components using Qt*, supervisor: **Julian Myrcha**, (4,5)*


[BSc90] **SEGIT PAWEL**, *Use of formal methods in software engineering, on example of the B method* (in Polish – Wykorzystanie metod formalnych w procesie wytwarzania oprogramowania, na przykładzie metody B), supervisor: **Ilona Bluemke**, (5)

[BSc91] **SKONECZNY KAMIL**, *Application for reading and generating contact cards stored in 2D barcodes* (in Polish – Aplikacja do odczytu i generowania wizytówek zapisanych w kodach dwuwymiarowych), supervisor: **Witold Wysota**, (5)

[BSc92] **SKURA MICHAL ARTUR**, *An application of NVIDIA CUDA architecture for image synthesis with radiosity method* (in Polish – Zastosowanie architektury NVIDIA CUDA do generowania obrazów metodą energetyczną), supervisor: **Paweł Radziszewski**, (5)

[BSc93] **SOCZEWSKA MICHAL**, *Artificial intelligence engine based on neural* (in Polish – Silnik sztucznej inteligencji wykorzystujący sieci neuronowe na przykładzie bota w strzelance 2D), supervisor: **Tomasz Martyn**, (4)

[BSc94] **SOWA ŁUKASZ SZYMON**, *Modern security mechanisms in Linux* (in Polish – Nowoczesne mechanizmy bezpieczeństwa w systemie Linux), supervisor: **Tomasz Jordan Kruk**, (excellent)
[BSc95] **Stalewski Bartosz**, *Application for publication of open data* (in Polish – Aplikacja do publikacji otwartych danych), supervisor: **Piotr Gawrysiak**, (5)

[BSc96] **Staroń Michał**, *The program for the design of asynchronous automaton based on the given transition and exit table* (in Polish – Program do projektowania automatów asynchronicznych na podstawie tabeli przejść i wyjść), supervisor: **Jacek Raczkowski**, (5)


[BSc98] **Sulek Maciej Bartłomiej**, *Object classification in the data fusion systems* (in Polish – Klasyfikacja obiektów w systemach fusji danych), supervisor: **Robert Nowak**, (4)

[BSc99] **Szmit Kamil Artur**, *Timetable arrangement and visualization system for English-speaking students* (in Polish – System układania i wizualizacji planu zajęć dla studentów anglojęzycznych), supervisor: **Dariusz Turlej**, (4,5)

[BSc100] **Sznaider Adam Gerard**, *Supervision of native applications’ execution correctness using dynamic code injection* (in Polish – Kontrola poprawności wykonywania aplikacji natywnych z wykorzystaniem dynamicznego wstrzykiwania kodu), supervisor: **Piotr Gawkowski**, (5)


[BSc104] **Śleszyński Artur**, *Skiers’ position tracking system* (in Polish – System śledzący położenie narciarzy), supervisor: **Witold Wysota**, (5)

[BSc105] **Trzpil Piotr**, *Mutation testing in ASP.NET MVC* (in Polish – Testowanie mutacyjne w ASP.NET MVC), supervisor: **Anna Derezińska**, (5)

[BSc106] **Twardowski Jan**, *Distributed queueing system* (in Polish – Rozproszony system kolejkowania), supervisor: **Tomasz Jordan Kruk**, (4,5)

[BSc108] **WASILUK MICHAL**, *A web application with CDI/Seam 3 technologies* (in Polish – Aplikacja internetowa z wykorzystaniem technologii CDI/Seam 3), supervisor: **Jakub Koperwas**, (excellent)


[BSc110] **WITOWSKI RAFAL DOMINIK**, *Software fault simulator for 32- and 64-bit Linux systems* (in Polish – Programowy symulator błędów dla 32- i 64-bitowych systemów Linux), supervisor: **Piotr Gawkowski**, (excellent)


[BSc112] **WOJDOWSKI RAFAL**, *An Application to searching new research articles* (in Polish – Aplikacja do wyszukiwania nowych artykułów naukowych), supervisor: **Grzegorz Protaziuk**, (5)


[BSc114] **WÓJCIK STEFAN**, *Learning management system*, supervisor: **Roman Podraza**, (5)*

[BSc115] **ZAKRZEWSKI KAROL**, *Service database for mid-size company* (in Polish – Serwisowa baza danych dla średniego przedsiębiorstwa), supervisor: **Janusz Sosnowski**, (4,5)

[BSc116] **ZIELIŃSKI PAWEŁ MATEUSZ**, *Using GPU cores to accelerate the visualization in the ray tracing method* (in Polish – Zastosowanie procesorów GPU do przyspieszania wizualizacji z wykorzystaniem metody śledzenia promieni), supervisor: **Przemysław Rokita**, (excellent)

[BSc117] **ŻUKOWSKA MARTA**, *Clustering of scientific publications using bibliographic metrics* (in Polish – Grupowanie artykułów naukowych na podstawie analizy listy cytowań), supervisor: **Piotr Kołaczkowski**, (5)

[BSc118] **ŻURAWSKI MAREK**, *Modelling explosions in 3ds max program* (in Polish – Modelowanie eksplozji w programie 3ds max), supervisor: **Rajmund Kożuszek**, (4,5)
6. PUBLICATIONS

6.1. Scientific and technical books, chapters in books, translations, editorships

Editorial functions:


Authored books:


Edited books:


Book chapters:


[Pub21] **Ryżko Dominik Paweł, Radziszewska Veronika**: Integration between Web Services and Multi-Agent Systems with Applications for Multi-commodity


6.2. Scientific and technical papers in Journals

6.2.1 Scientific and technical papers published in journals listed in the Journal Citation Reports – JCR. List A – Ministry of Science and Higher Education


6.2.2 Scientific and technical papers published in journals listed in the Journal Citation Reports. List B – Ministry of Science and Higher Education


6.2.3 Other Journals


6.3. Scientific and technical papers in conference proceedings


Workshop on Post-Binary ULSI Systems / Homma Naofumi, Nagayama Shinobu (eds.), 2012, University of Victoria, pp. 54–61


7. RESEARCH REPORTS


8. AWARDS

[Award 1] Professor Jan Zabrodzki received the Rector’s of Warsaw University of Technology award for the lifetime achievement.

[Award 2] Henryk Kowalski, MSc, received the Rector’s of Warsaw University of Technology individual award for the excellence in education in 2011.

[Award 3] Tomasz Martyn, PhD, received the Rector’s of Warsaw University of Technology individual award for the excellence in education in 2011.

[Award 4] The team: Krzysztof Chabko, MSc, Krzysztof Gracki, MSc, Marek Pawłowski, MSc, Jacek Raczkowski, PhD, Andrzej Skorupski, PhD and Zbigniew Szymański, MSc, received the Rector's of Warsaw University of Technology collective award for the excellence in education in 2011.

[Award 5] The team: Cezary Stepień, PhD, Krzysztof Chabko, MSc, Krzysztof Gracki, MSc, and Rajmund Kożuszek, MSc, received the Rector’s of Warsaw University of Technology collective award for the excellence in education in 2011.
9. PATENTS

9.1. Patent issued

10. CONFERENCES, SEMINARS AND MEETINGS

10.1. Organisation of international conferences

ISMIS 2012 – The 20th International Symposium on Methodologies for Intelligent Systems, University of Macau, Macau, China, 4 – 7 December 2012. **General Chair** – Zbigniew Raś, **Steering Committee**: Marzena Kryszkiewicz, Henryk Rybiński.

ECML-PKDD Workshop on New Frontiers in Mining Complex Patterns, 24 – 28 September 2012, Bristol, UK. Organizing Committee – Zbigniew Raś (co-Chair).

10.2. Participation in international conferences

[Con1] 11\textsuperscript{th} International Conference, ICAISC 2012, Zakopane, Poland, April 29 – May 3 2012, participants: B.S. Butkiewicz, D. Ryżko.


[Con11] 4\textsuperscript{th} Workshop on Reversible Computation (RC), 2 – 3 July 2012, Copenhagen, Denmark, participant: P. Kerntopf.


[Con13] 16\textsuperscript{th} East European Conference, ADBIS 2012, Poznań, Poland, 18 – 21 September 2012, participants: P. Andruszkiewicz, D. Ryżko.


10.3. Local conferences

[Con19] VIII Krajowa Konferencja Naukowa BDAS’12: Bazy Danych Aplikacje i Systemy, Ustronie, 29 May – 1 June 2012 r., Instytut Informatyki Wydziału Automatyki, Elektroniki i Informatyki Politechniki Śląskiej w Gliwicach, participant: M. Muraszkiwicz.

11. LIBRARY OF THE INSTITUTE

**Krystyna Sosnowska**, MA, *Manager*  
Room: 135  
E-mail: K.Sosnowska@ii.pw.edu.pl  
Phone: (+48 22) 234 7304

The Institute’s Library the collection comprises more than 7000 books and 620 volumes of scientific journals and magazines. They are available to the Institute’s staff as well as to the Computer Science students. Over ten Polish and foreign scientific and technical magazines are permanently subscribed. Additionally, the Institute’s Library has in stock more than 4700 special library items, including hardware/software product catalogues, software documentation, etc., as well as the wide range of research reports, diploma theses etc., issued by the Institute itself and by other Polish and foreign research institutions. The collection of books and handbooks is systematically updated and it is very representative for the computer science and computer engineering domains.

The Library’s information system provides the access not only to own database of books, magazines and publications, but also to the similar specialised libraries of five other Institutes constituting the Faculty of Electronics and Information Technology, to the Library of the Faculty (all located in the same building), as well as to the Main Library of the Warsaw University of Technology and, generally, to the national library information system. The library users have an access to the Internet (2 workstations) and to the ALEPH system – the library of the Institute is integrated with the library information system of the University.

K. Sosnowska has provided a specialised course “Library and Information Science Training” for the students of the Faculty.