

Tomasz RAK

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EDUCATION

AGH UNIVERSITY OF SCIENCE AND TECHNOLOGY

PH.D. IN COMPUTER SCIENCE
2007 | Krakow, Poland

RZESZOW UNIVERSITY OF TECHNOLOGY

M.Sc. IN COMPUTER SCIENCE
1999 | Rzeszow, Poland

SKILLS

PROGRAMMING

C/C++/C# • ASP.NET MVC/Core • PHP • Rails • HTML • CSS/LESS/SASS • JavaScript/TypeScript/Angular • Shell scripts • SQL • MPI library • openMP interface (*Advanced knowledge of Web technologies, distributed computing, high performance computing and script programming*)

OPERATING SYSTEMS

Linux • iOS (*Advanced knowledge of computer networks, databases, clusters, services and cryptography*)

RESEARCH INTERESTS

TARGET TECHNOLOGY DOMAINS

Software engineering • Service-oriented computing • Distributed component-base systems • Database and information systems • Event-base systems

MAIN RESEARCH AREAS

Internet systems architectures • HA and HP clusters • Software and systems engineering • Systems benchmarking, monitoring, simulation and experimental analysis • Analytical and experimental performance modeling • Queueing theory • Petri nets

H-INDEX

Publons (Web of Science) : 4

• Scopus : 5 • Google Scholar : 7 •

ResearchGate : 6

EXPERIENCE

SCIENCE

RZESZOW UNIVERSITY OF TECHNOLOGY | PH.D. ENG., ASSIST. PROF.

1999- | Rzeszow, Poland **RUT** (Research Asst. & Students Teacher)

I work on the mechanisms of the Web programming, distributed systems performance analysis and computer networks.

AGH UNIVERSITY OF SCIENCE AND TECHNOLOGY | PH.D. ENG.

2005- | Krakow, Poland **AGH** (Research Asst.)

Professor **Prof. Jan Werewka** and my common research work is concern on the architectures of Web-based systems.

RESEARCH AND DEVELOPMENT

SOFTTEL SP. Z O.O. | SOFTWARE AND SYSTEM ARCHITECT

2002- | Rzeszow, Polska **Softtel**

Implementation of an innovative system of comprehensive bank service.

ADVANCED TECHNOLOGY SYSTEMS INTERNATIONAL | SOFTWARE AND SYSTEM ARCHITECT

2002-2003 | Krakow, Poland **ABS**

Design of the system clustered Web application.

SOFTSYSTEM SP. Z O.O. | EXPERT IN THE USE OF IT SOLUTIONS • PROJECT MANAGEMENT

2016-2020 | Rzeszow, Polska **SoftSystem**

Designing solutions for high-performance Web clinical software for hospitals and medical laboratories (POIR.02.01.00-00-00-0438/16 project).

SOFTSYSTEM SP. Z O.O. | EXPERT IN THE USE OF IT SOLUTIONS •

ARCHITECT OF EXPERT SYSTEM PROTOTYPE

2020- | Rzeszow, Polska **SoftSystem**

R&D works on the development of an expert system for the analysis of data obtained from breast cancer tissue using nuclear magnetic resonance imaging (RPPK.01.02.00-18-0012/18 project).

NATIONAL INSTITUTIONS

NATIONAL AGENCY FOR ACADEMIC EXCHANGE | EXPERT

2019- | Warsaw, Poland **NAWA**

FOUNDATION FOR POLISH SCIENCE | EXPERT

2019- | Warsaw, Poland **FNP**

MINISTRY OF ENTREPRENEURSHIP AND TECHNOLOGY | EXPERT

2018- | Warsaw, Poland **MPiT**

NATIONAL INFORMATION PROCESSING INSTITUTE | EXPERT

2018- | Warsaw, Poland **OPI PIB**

MINISTRY OF ECONOMY/MINISTRY OF INVESTMENT AND DEVELOPMENT/MINISTRY OF DEVELOPMENT

2015- | Warsaw, Poland **MliR**

MINISTRY OF DIGITAL AFFAIRS | EXPERT

2015- | Warsaw, Poland **MC**

PROJECT CENTRE DIGITAL POLAND | EXPERT

2014- | Warsaw, Poland **CPPC**

NATIONAL CENTRE FOR RESEARCH AND DEVELOPMENT | EXPERT

2009- | Warsaw, Poland **NCBiR**

INTERNATIONAL INSTITUTIONS

AAL PROGRAMME | EXPERT

2019- | Brussels, Belgium **AAL**

AFFILIATIONS

Queueing theorists list: **pos. 1541**

RUT expert: **Informatics**

LINKS

Publons:// **G-1895-2012**

ORCID:// **0000-0002-9299-2216**

DBLP:// **Tomasz Rak**

Scopus:// **Author ID: 34977412000**

Google Scholar:// **Tomasz Rak**

ResearcherID:// **G-1895-2012**

ResearchGate:// **Tomasz_Rak**

LinkedIn:// **tomasz-rak-50775859**

CERTIFICATIONS

APMG-INTERNATIONAL PRINCE2 CERTIFICATION

- APMG Foundation PRINCE2 Certificat **P2R/994137**
- APMG Practitioner PRINCE2 Certificat **P2R/542120**

CENTRAL ANTI-CORRUPTION BUREAU

- Corruption in public administration
- Corruption in business
- Social effects of corruption

AWARDS

| | | |
|-----------|-----------------|--|
| 2017 | | Medal of Commission of National Education |
| 2016 | 3 th | Rector's RUT individual award |
| 2009,2008 | 3 th | Rector's RUT team and individual awards |
| 2004-2006 | 2 nd | Rector's RUT team awards |
| 2003 | 1 st | Rector's RUT individual award |

ARTICLES AND BOOKS

- **39** articles: scientific (26), popular science (13) **publications** (*National and international*)
- **13** books about programing, computer systems and computer networks: **Helion** (10), **PWN** (1), supporting materials (2)) (*National*)

PARTICIPATION IN CONFERENCES

| | | |
|------|----------------|----------------|
| 2020 | ICICEE | |
| 2019 | CN | |
| 2017 | CN | |
| 2014 | ISCIS | FedCSIS |
| 2009 | CEE-SET | |
| 2008 | IMCSIT | |

ACCOMPLISHMENTS

- 2014-2020 | Polish Expert of European Union national programmes: Operational Programme Smart Growth • Operational Programme Digital Poland
- 2006-2007 | The modeling and analysis of interactive Internet systems realizing the service of high - frequency offers (National grant **3 T11C 022 30-2006**)
- The conference Technical Program Committee/International Advisory Committee:
 - 2021 | **ICACDS**
 - 2020 | **ICEECCOT** **ICACDS** **CN** **ICNS** **ICISSC** **ICACI** **AEMIT** **CHSN** **CONSILIO**
ISAIC **ICCTC** **MIND**
 - 2019 | **ICEECCOT** **ICACDS** **CN** **ICAIT** **ICATIECE** **CTCE**
 - 2018 | **ICEECCOT** **ICACDS** **CN**
 - 2017 | **ICEECCOT** **CN** **CSMA**
 - 2016 | **ICEECCOT** **ICACDS** **CSSR** **CNCT**
- Journal Reviewer:
 - 2020- | **JCS** 0.16 SJR **JS** 0.39 SJR **CSIT**
 - 2019- | **AJPS** **CJAST** **CAI** 0.19 SJR; IF: 0.524
 - 2018- | **Measurement: JIMC** 0.72 SJR; IF: 2.218
- Book Guest Editor:
 - 2021 | **Elsevier**
 - 2020 | **Atlantis Press** **IET** **IGI Global**
- Author of ICT Exams:
 - 2011 | **Network Administration** **Linux**