

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 systems, 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) : 5

• 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

2020-2021 | 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 - NATIONAL RESEARCH INSTITUTE | EXPERT

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

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

2015- | Warsaw, Poland **MiIR**

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**

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**

ARTICLES AND BOOKS

- **43** articles: scientific (30), popular science (13) **publications** (*National and international*)
- **13** books about programing, computer systems and computer networks: **Helion** (10), **PWN** (1), supporting materials (2)) (*National*)

GITHUB REPOSITORIES

2021:// **47**
2020:// **18**
2019:// **113**

INTERNATIONAL INSTITUTIONS

AAL PROGRAMME | EXPERT
2019- | Brussels, Belgium **AAL**

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

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:

2022	ICINT	ICDSIS	ICDCECE	ICNS	ICACDS	ICIEA				
2021	ICDCOT	ICACDS	CN	ICNS	CHSN	CONSILIO	MIND	ICMNWC	CSCNS	
	MysuruCon	ICICA								
2020	ICEECCOT	ICACDS	CN	ICNS	CHSN	CONSILIO	MIND	ICISSC	ICACI	
	AEMIT	ISAIC	ICCTC							
2019	ICEECCOT	ICACDS	CN	ICAIT	ICATIECE	CTCE				
2018	ICEECCOT	ICACDS	CN							
2017	ICEECCOT		CN	CSMA						
2016	ICEECCOT	ICACDS		CSSR	CNCT					

- Book/Journal Reviewer:

2021-	SCS (Springer)	PUC (Springer) 0.42 SJR	Mathematics (MDPI) 0.5 SJR	ARJOM
2020-	JAMCS	APJCP 0.51 SJR	MM (Elsevier) 0.32 SJR	JCS 0.16 SJR
2019-	AJPS	CJAST	CAI 0.19 SJR	
2018-	Measurement (Elsevier) 0.72 SJR			
- Book/Journal Guest Editor:

2022	PRL (Elsevier) 0.67 SJR	CEE (Elsevier) 0.63 SJR		
2021	MM (Elsevier)			
2020	Atlantis Press	IET	IGI Global	
- Author of ICT Exams:

2011	Network Administration	Linux		
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