

# Curriculum Vitae



Prof. Dr. Milan Petković

## Personal information

First name(s) / Surname(s) **Milan Petković**

Address(es)

Telephone(s)

Mobile:

E-mail

Nationality

Dutch and Serbian

Date and place of birth

## Research interests

Machine Learning, Big Data Analytics, Secure Data Management, Medical Informatics

## Work experience

Dates

**2003 up to now**

Position held

Department Head (Data Science - now); Group leader, Cluster Leader; Senior Scientist;

Name and address of employer

Philips Research, Eindhoven, The Netherlands

Main activities and responsibilities

Responsibilities:

- Currently head of the Data Science Department (>40FTE)
- Research program management, project management and industrial research in data science
- Philips Research Science Council
- Data Science Flagship with TU/e
- Representing Philips externally

Dates

**2009 up to now**

Occupation or position held

Part-time Professor Computer Science

Name and address of employer

Eindhoven University of Technology, The Netherlands

Main activities and responsibilities

Responsibilities:

- Secure AI Chair
- Education and Research in the field of AI security and trust management
- Supervision of PhD and Master students (currently co-promoter of 6 PhD students)
- Project Management (led AU2EU, leading COMMIT TheCS project – budget > € 6M)

Dates

**2015 – now**

Occupation or position held

Vice President

Name and address of employer

Big Data Value Association (Big Data PPP), Brussels, Belgium

Main activities and responsibilities

Leadership team, Strategic Research and Innovation Agenda, Daily management

Dates

**1999 – 2003**

Occupation or position held

Research assistant (Medewerker in onderzoek)

Name and address of employer

Twente University, Enschede, The Netherlands

Main activities and responsibilities	Responsibilities: <ul style="list-style-type: none"> <li>• Research in the fields of: multimedia information retrieval, databases, image/video processing, pattern recognition and computer vision.</li> </ul>
Dates	<b>1994 -1999</b>
Occupation or position held	Teaching and research assistant
Name and address of employer	University of Niš, Niš, Serbia
Main activities and responsibilities	Responsibilities: <ul style="list-style-type: none"> <li>• Teaching of the undergraduate level courses on databases and data structures, techniques and methods of programming, basics of programming and basics of computer technology. Preparation of exams and project assignments.</li> <li>• Supervising master students</li> <li>• Research in the fields of Geographic Information Systems, Software engineering, and Knowledge-based systems</li> <li>• Project leadership in a number of research and development projects for Serbia Telecom, Yugoslav army, Urban Planning Institute and Federal Ministry for Science and Technology;</li> </ul>
<b>Other professional activities</b>	
Participation in international initiatives	<ul style="list-style-type: none"> <li>• BDVA, Horizon 2020 Big Data PPP</li> <li>• Cyber Security Public Private Partnership (member)</li> <li>• H2020 Security Advisory Group Secure Societies (member from 2014-2016)</li> <li>• Member of standards development organizations: Continua Health Alliance, Integrating the Healthcare Enterprise, HL-7, etc.</li> <li>• Member of European Coordination Committee of the Radiological, Electromedical and Healthcare IT Industry (COCIR)</li> <li>• IEEE, IFIP, EEMA (European Association for e-Identity and Security)</li> <li>• In the past also member of the Stakeholder Group of European Network and Information Security Agency (ENISA) for Emerging and Future Risks, Member of EU Internet of Things governance initiative, Member of EU eHealth governance initiative</li> <li>• Member of several strategic advisory boards of research institutes and national initiatives</li> </ul>
Editorial responsibilities	<p>Editorial board of Big Data Research journal, Elsevier</p> <p>Editor of a special issue of the Journal of Computer Security on secure data management Vol.17 No.1</p> <p>Editor of 10 LNCS proceedings (SDM 2004 – 2013)</p> <p>Editor of a book in Springer's Data-Centric Systems and Applications Series</p>
Program chair	More than 10 conferences/workshops (e.g. VLDB Secure Data Management Workshop series)
Program committee member	Member of more than 50 PCs
External reviewer/evaluator	<ul style="list-style-type: none"> <li>• Independent evaluator and reviewer for European Commission Framework Programme 6 and 7, ERC, Danish and Norwegian national research programs, etc.</li> </ul>
Referee/reviewer	<ul style="list-style-type: none"> <li>• Many IEEE Transactions and different journals</li> </ul>
<b>Education</b>	
Dates	<b>1999 – 2003</b>
Title of qualification awarded	PhD
Principal subjects/occupational skills covered	Computer Science Thesis title: Content-Based Video Retrieval Supported by Database Technology Advisor: Willem Jonker
Organisation providing education	Twente University, The Netherlands
Dates	<b>1996</b>
Title of qualification awarded	MPh (Master of Philosophy)
Principal subjects/occupational skills covered	Computer Science Thesis title: An Intelligent Vehicle Navigation System
Organisation providing education	University of Niš, Serbia

Dates	<b>1989 – 1994</b>																				
Title of qualification awarded	Dipl.Ing (Diploma Engineer – equal to master of science) “cum laude”; Best thesis award Five year programme (37 exams, 9 semesters + master thesis project); Average mark: 9.8 (1-10)																				
Principal subjects/occupational skills covered	Computer Science Thesis title: A development tool to support building DBMS applications																				
Organisation providing education	University of Niš, Serbia																				
Level in international classification	MSc (Master of Science)																				
<b>Personal skills and competences</b>																					
Mother tongue(s)	<b>Serbian</b>																				
Other language(s)	<b>English, Dutch</b>																				
Self-assessment <i>European level</i>																					
<b>English</b>																					
<b>Dutch</b>																					
	<table border="1"> <thead> <tr> <th colspan="2">Understanding</th> <th colspan="2">Speaking</th> <th>Writing</th> </tr> <tr> <th>Listening</th> <th>Reading</th> <th>Spoken interaction</th> <th>Spoken production</th> <th></th> </tr> </thead> <tbody> <tr> <td>Proficient user</td> <td>Proficient user</td> <td>Proficient user</td> <td>Proficient user</td> <td>Proficient user</td> </tr> <tr> <td>Independent user</td> <td>Independent user</td> <td>Independent user</td> <td>Independent user</td> <td>Independent user</td> </tr> </tbody> </table>	Understanding		Speaking		Writing	Listening	Reading	Spoken interaction	Spoken production		Proficient user	Proficient user	Proficient user	Proficient user	Proficient user	Independent user	Independent user	Independent user	Independent user	Independent user
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Technical skills and competences	<p>Extensive knowledge in the following fields:</p> <ul style="list-style-type: none"> <li>• Data Science: Data management/processing, Machine Learning, Multimedia information retrieval, Image and video processing, Knowledge management, Semantic reasoning, etc.</li> <li>• Security: Secure data management, Security architectures, Privacy enhancing technologies, Trust Management, Applied cryptography, Identity management, etc.</li> </ul>																				
Social skills and competences	<ul style="list-style-type: none"> <li>• Coaching skills: supervised a number of master and PhD student from different universities and countries (TU/e, EPFL Lausanne, University of Twente, Technical University Eindhoven, University of Nijmegen, University of Nis, etc.).</li> <li>• Teaching: gained through courses and practice (12 years university teaching)</li> <li>• Intercultural skills: training on “Intercultural Awareness” and experience of working with colleagues with different nationalities (US, Chinese, Indian, African, almost all European, etc.)</li> <li>• Adaptability: gained by living in different countries and working for various employers</li> <li>• Team work: gained by participating in various teams; training on “working in a team”</li> <li>• Presentation skills: obtained in practice (lectures, conference presentations, invited talks, panels, keynotes), as well as in training on high impact presentations.</li> </ul>																				
Organisational skills and competences	<ul style="list-style-type: none"> <li>• Project management skill: acquired in training on “Managing successful projects”, and “Managing research projects” as well as in practice by managing a number of research as well as development projects (e.g. EU projects, Dutch national projects, etc.).</li> <li>• Leadership skills: gained in many trainings in Philips and in practice by leading teams of researchers and developers.</li> <li>• Workshop and conference organization: though participation in several organization and program committees (see professional activities below).</li> <li>• Skills related to ideation and brainstorm workshops</li> <li>• Organizational skills related to editing of books and journals (see professional activities below)</li> <li>• Research program management: deep dives, validation of research roadmaps based on consumer insights and market assessment</li> </ul>																				
Sports and artistic skills	Tennis, Basketball, Swimming, Skiing, Photography, etc.																				
<b>Publications</b>	<p>See <a href="https://www.tue.nl/en/university/departments/mathematics-and-computer-science/the-department/staff/detail/ep/e/d/ep-uid/20098227/ep-tab/4/">https://www.tue.nl/en/university/departments/mathematics-and-computer-science/the-department/staff/detail/ep/e/d/ep-uid/20098227/ep-tab/4/</a></p> <p>More than: 100 publications, 10 granted patents and 30 patent applications, etc.</p>																				