Prof. Dr. Maria A. Wimmer: CV and scientific achievements

A. CV (03/07/2020)

1. Personal information, including the researcher ID

Position: Full Professor for E-Government, Vice Dean for Research
Institution: University of Koblenz-Landau, Faculty of Computer Science
Address: Universitätsstr. 1, D-56070 Koblenz, Germany
Contact: +49 261 / 287-2646, wimmer@uni-koblenz.de
Web: http://www.uni-koblenz.de/agvinf/

2. Education

11/2000 - 03/2003 Venia Docendi in Applied Computer Science (Dr. habil.)
Faculty of Computer Science, Johannes Kepler University, Linz, Austria
Title of Habilitation thesis: Towards Knowledge Enhanced E-Government:
Integration as Pivotal Challenges

01/1998 - 10/2000 Doctor of Technical Sciences (Dr. techn.)
Faculty of Computer Science, Johannes Kepler University, Linz, Austria
Title of dissertation: Designing Interactive Systems: key issues for a
Holistic Approach

10/1992 - 10/1997 Diplom-Ingenieur in Computer Science (Dipl.-Ing.)
Faculty of Computer Science, Johannes Kepler University, Linz, Austria
Title of Diploma thesis: Systems Supporting Cooperative Work: Evolutio-
nary and Holistic Design Considerations

3. Employment history including current position(s)

11/2005 - now   *Professor* for E-Government, Chair of Research Group E-Government
University of Koblenz-Landau, Faculty of Computer Science, Germany

9/2004 – 10/2005 *Staff member* of the ICT operative Unit, Federal Chancellery, Vienna, AUT

8/1999 – 8/2004 *Research and teaching assistant,* Johannes Kepler University, Faculty of
Computer Science, Linz, Austria

9/1997 – 7/1999 *Young researcher,* National Research Council, Rome, Italy & University of
Siena, Multimedia Communications Lab, Italy

------------ *interrupting professional job for studying computer science* ------------

9/1988 – 6/1992 *Executive manager and chief clerk* in Linz and Wels, Austria

4. Institutional responsibilities in the past five years

2020 - ongoing   Vice Dean for Research of Faculty of Computer Science, Elected Member
of Faculty Board; Elected Member of the Senate of the University; Member
in two professorship appointment committees (chairing one of them)

2017 - 2019   Dean of Faculty of Computer Science and Member of Faculty Board; Chair
of PhD Board of Faculty; Formal Member of Senate of University; Member
of strategy board on research and teaching profile of University

2014 - 2016   Vice Dean of Faculty of Computer Science and Member of Faculty Board;
Study Dean and Member of the Study Board; Chairing a Professorship
Appointment Committee in the Faculty

5. Approved research projects (selection of recent and relevant projects)

EC Projects in H 2020: TOOP, SCOOP4C; **ISA² Study** on Governance of Interoperability and Public
Service; **EC Large–scale Pilot Projects in CIP**: eSENS, PEPPOL; **EC Projects in CEF Telecom**:

ESPDint, INTERPLAT, iFLOAT; **ERASMUS+ Knowledge Alliance**: Gov 3.0; **National and regional funding**: SWiA, BKS-Portal.rlp, Concept Smart Wineyard, E-Democracy.

6. Teaching activities

Teaching the following modules in the BSc and MSc study programs Information Systems, Information Management and the MSc E-Government and MSc Web and Data Science:

- Systems Analysis (BSc), ca. 150 students, annually, in German (DE)
- Enterprise Architecture (MSc), ca. 60 students, annually, in English (EN), using public e-procurement as case for EA design
- Foundations of E-Government (BSc and MSc, elective), ca. 20 students, every 3rd semester, in DE/EN
- Advances of E-Government (MSc, elective), 20 students, incl. seminar, every 3rd sem., DE/EN, in winter term 2019/2020 on Smart City jointly held with Dr. Viale Pereira
- E-Participation (Master, elective), ca. 40 stud., incl. seminar, every 3rd sem., in EN
- Public Governance and Open Government (Master, elective), ca. 15 students, including seminar, every fourth semester, in EN
- Public Management (Bachelor, elective), ca. 20 students, every 4th semester, in DE
- Seminar on E-Government subjects (Bachelor), ca. 20 students, every year, in DE
- Practical Project on E-Government (Bachelor), ca 10 students, every semester, in DE
- Research Intern on E-Government (Master), ca. 10 stud., every sem., in DE or EN

7. Memberships in panels, boards, & individual scientific reviewing activities

External examiner of PhD theses (with TU Delft, Agder University, TU Munich, TTU Estonia, Trondheim Univ.); Reviewer for GIQ, Information Polity, TGPPP, Electronic Markets, and conferences;
Reviewer for EC H2020 projects, Reviewer of German Digitalisation in Education Call;
Member in the annual e-government awards jury in Germany (since 15 years).

8. Active memberships in scientific societies

Member of ACM, IEEE, AIS, IFIP, German Computer Society, National E-Government Competence Centre in Germany, Austrian Computer Society

9. Organisation of conferences

Conference co-chair of annual IFIP EGOV in period 2005 - 2016, local organiser in 2013;
Conference co-chair of IFIP ePart 2013, PC member of ePart since 2009;
Organising team member of Informatik 2013 in Koblenz.

10. Prizes, awards, fellowships

Best paper award at IFIP ePart 2016: Paper:
Best paper award at DG.O 2018, Paper: A. Santamaria, MA Wimmer. Trust in e-participation: an empirical research on the influencing factors. Proceedings of DG.O, ACM, 2018
Listed among the 100 most influential people in digital government 2018 at the platform Apolitical

B. Major scientific achievements (as of 03/07/2020)

1. Overview of achievements in scientific publications

Publications cover research on e-government, e-participation and digital transformation of the public sector. Since the first publications in 1996, Maria Wimmer published 172 peer-reviewed articles and co-edited 48 books plus 2 journal special issues with peer-review process. The following table provides an overview of the achievements:

Peer-reviewed articles in Journals	21
Peer-reviewed articles in Scientific Conferences	136
Peer-reviewed articles in Collective Volumes	15
Co-Editor of Journal Special Issues	2
Co-Editor of Conference Proceedings	43
Co-Editor of Collective Volumes	5
Other non-peer-reviewed publications*	50

*not including the vast amount of technical reports (deliverables) generated in research projects

Current h-Index on Google Scholar is 29, current i10 index is 87 – see
https://scholar.google.com/citations?hl=en&user=QvZLlC8AAAAJ.

2. Overview of major lasting achievements in R & D projects

Research and Development (R&D) funding is approx. 500.000 € per year. Research funding stems from EU and national funding agencies as well as from State and local governments.

Particular sustainable achievements in R&D projects:
In the ongoing **Gov 3.0 project** (ERASMUS+ knowledge alliance on 'Scientific foundations training and entrepreneurship activities in the domain of ICT-enabled Governance', https://www.gov30.eu/), Maria A. Wimmer leads the work package on developing a research roadmap for using disruptive technologies and concepts for digital transformation of the public sector. Several publications document the results of the work, and an Erasmus Mundus Joint Master in Government Digital Transformation has recently been submitted to the ERASMUS+ program (led by University of the Aegean (GR), partnering with University of Koblenz-Landau (DE) and Danube University Krems (AT)).

In **SWiA** (Smart Living in older age, funded in the Land.Digital program of BLE, https://swia-cochem-zell.de/) a smart app is developed to map the mobility needs of elderly with the mobility offers (public transportation, taxi, voluntary drivers) in the rural area of Cochem-Zell along the Mosel. The app uses intelligent algorithms and combines a co-creation approach with social community.

Maria was Workpackage Leader of the Virtual Company Dossier (VCD) developments in the Large-scale Pilot Project PEPPOL (co-funded by the EC in the Competitive Innovation Program in 2008-2012). With her team at UKL and with partners in the project, the concept of the VCD was developed and standardization procedures were initiated with CEN. After 2012, these activities went on through openPEPPOL (https://peppol.eu/), where Maria is a member with her Research Group E-Government of UKL. The research continued also in the subsequent eSENS project (https://www.esens.eu/), where the eDocument and semantics Building Blocks were further developed and the results fed into the EU CEF building blocks. Research on the VCD concept has also contributed to the shaping of the European Single Procurement Document (ESPD, https://ec.europa.eu/growth/single-market/public-procurement/digital/espd_en), which is introduced in the European Directive 2014/24/EU (cf. Art. 59) as a concept and solution to reducing administrative burden by enabling the sharing and re-use of evidentiary documents in e-procurement across Europe in a standardized and interoperable manner. The ESPD and VCD concepts have been matured from PEPPOL over eSENS to real implementations in several CEF Telecom projects in the past few years (among them ESPDint, where UKL was involved; see http://wiki.ds.unipi.gr/display/ESPDInt/ESPD+International+Knowledge+Base, and at the eVergabe platform in Germany https://eee.evergabe-online.de/). The ESPD and VCD service is used as a solution for business mobility in a pilot scenario of TOOP (https://www.toop.eu/), the once-only principle project. The once-only principle was also studied in the SCOOP4C project (coordinated by Maria). From this project, relevant case studies from across Europe may be further explored in regards to enablers and barriers of digital transformation with OOP.

The involvement in the activities of the ESPD and VCD service are on the one hand contributions to the standard specifications in close collaboration with DG Growth of the EC and CEN standardization activities in the CEN Business Interoperability Interfaces (BII) Workshops and in the recent CEN Technical Committee 440. On the other hand, her research group e-government @ UKL collaborates on technical implementations of the ESPD and VCD solution; e.g. in ESPDint in close collaboration with the Federal Procurement Agency in Germany (BeschA) and the company Pöyry GmbH who is a prequalification body in Germany; in TOOP with Pöyry GmbH to bring the ESPD solution one step further to be fully OOP compliant. From this work, artefacts with sustainable practical impact are Profiles 41 (ESPD) and 56 (VCD) of CEN.

Another lasting achievement is in the **BKS-portal.rlp** https://www.bks-portal.rlp.de/: The project started as a research project in 2010 with the aim to analyze whether an existing solution used in Baden-Württemberg in the management of police forces could also be applicable in Rhineland-Palatinate for rescue management. The research project turned subsequently (2012 – 2015) into a research and development project to conceptualize a Web-based portal that provides **inter-agency collaboration as well as centralized data and knowledge sharing on rescue management in Rhineland-Palatinate.** In the period 2016 to 2018, the prototype advanced to a piloting solution and it matured to a real application running since spring 2019 at the central IT service provider LDI of Rhineland-Palatinate. To date, over 9.000 users (public servants from State- and municipal-level as well as voluntary actors - e.g. fire brigades) use the platform. The conceptual developments and implementations in the project are done by the research group e-government under Maria's leadership. The core project team involves the Ministry of Interior and Sports in Rhineland-Palatinate together with subordinate agencies responsible for rescue management at State level, and several provincial administrations (Landkreise). The project applies co-creation and co-design, i.e. the actors from the public agencies contribute with their needs and requirements in the inception phase, and they review the concepts and solutions. The piloting and real use in the project involves all provinces and municipal level agencies as well as the voluntary sector actors such as fire brigades and red cross. The project provides insights into a case applying a disruptive concept of co-creation with inter-agency collaboration, trustworthiness and governance mechanisms. Recent research aims to leverage disruptive technologies such as AI, Machine Learning, IoT or Big Data analytics in rescue management. Furthermore, the project thoroughly addresses GDPR, privacy and IT- and data security due to the nature of the data partially falling under critical infrastructures.