CURRICULUM VITAE

DI MAG. MARLIES TEMPER[1]

MATTHIAS CORVINUS-STRASSE 15
3100 ST. PÖLTEN
AUSTRIA
T: +43/2742/313 228-642
E: MARLIES.TEMPER@FHSTP.AC.AT

EDUCATION

Since 2012: Doctoral Studies in Informatics, Vienna University of Technology

Since 2011: IEEE Certified Biometrics Professional, IEEE

2010: Master of Didactic for Informatics, Vienna University of Technology

2009: Master of Medical Informatics, Vienna University of Technology

PROFESSIONAL EXPERIENCE

Since 2014: Senior Researcher and Lecturer, St. Pölten University of Applied Sciences

2012-2014: Researcher and Lecturer, St. Pölten University of Applied Sciences

2009-2011: Junior Researcher and Lecturer, St. Pölten University of Applied Sciences

CORE COMPETENCIES

Computer Vision, Pattern Recognition, Data Mining, Machine Learning, Artificial Intelligence, Big Data, Biometrics, Access Control, Forensics, Critical Infrastructure Protection, Modeling and Simulation

RESEARCH PROJECTS

- **FaceMOC**
  As part of the research project Face-MOC a practical matching on-chip solution for biometric face recognition has been explored for smartcards. Well-known face recognition algorithms have been analyzed according to their suitability and optimized for their application on smartcards.
- **CAIS (Cyber Attack Information System)**
  During the CAIS Project - the Institute of IT Security Research is developing a system to analyse, model and simulate strategic ICT infrastructures for the rapid identification of danger points and the development of countermeasures.
- **Smartphone Security**

[1] maiden name: Rybnicek

The Smartphone Security project deals with new methods for biometric user authentication, internal cryptographic access protection and malware protection for smartphones, tablets and BYOD.

- **Facebook Watchdog**
  Social networks expose young people to new threats and perils such as cyberbullying/stalking or online grooming. The Facebook Watchdog project investigate data mining methods to automatically detect such attacks.

TEACHING EXPERIENCE

Bachelor Programme **IT Security:**

- Grundzüge der diskreten Mathematik (Discrete Mathematics)
- Methoden wissenschaftlichen Arbeitens (Research Methods)
- Identifikation und Authentifikation (Identification and Authentication)

Master Programme **Information Security**

- Biometrics
- Mustererkennung (Pattern Recognition)

Master Programme **Digital Health Care**

- Einführung in Digital Healthcare (Introduction to Digital Healthcare)

LANGUAGES

German, English, French

INTERNATIONAL RESEARCH AND TEACHING EXPERIENCE

2012: Lecturer at IWOSI (Information Warface, Cyber Warfare and Open Source Intelligence) Intensive Program in Izmir, Turkey.

2015: Research and Teaching Exchange Penn State Altoona, USA.

SELECTED PUBLICATIONS

S. Tjoa and M. Rybnicek, „Modellierung und Simulation kritischer IKT Infrastrukturen und deren Abhängigkeiten.“ In: Cyber Attack Information System - Erfahrungen und Erkenntnisse aus der IKT-Sicherheitsforschung, Xpert.press, Vieweg+Teubner Verlag, 2015.

A. Moser, M. Rybnicek and D. Haslinger, “Challenges and Limitations concerning automatic Child Pornography Classification.” In: 10th International Joint Conference on Computer Vision, Imaging and Computer Graphics Theory and Applications (VISAPP), Berlin, Germany. SciTePress, 2015.

M. Rybnicek, S. Tjoa and R. Poisel, “Simulation-based Cyber-Attack Assessment of Critical Infrastructures.” In: Lecture Notes in Business Information Processing - Springer, 10th International Workshop on Enterprise & Organizational Modeling and Simulation (EOMAS), Thessaloniki, Greece. Springer, IEEE, 2014.

M. Rybnicek, C. Lang-Muhr and D. Haslinger, “A Research Agenda for Continuous Biometric Authentication on Mobile Devices”, 10th International Wireless Communications and Mobile Computing Conference (IWCMC), Cyprus, Greece, IEEE, 2014

M. Rybnicek, R. Poisel, and S. Tjoa, „Facebook Watchdog: A Research Agenda For Detecting Online Grooming and Bullying Activities", IEEE International Conference on Systems, Man, and Cybernetics (SMC), Manchester, England, IEEE, 2013.

R. Poisel, M. Rybnicek, B. Schildendorfer, and S. Tjoa, „Classification and Recovery of Fragmented Multimedia Files using the File Carving Approach", International Journal of Mobile Computing and Multimedia Communications (IJMCMC), Information Resources Management Association, 2013.

R. Poisel, M. Rybnicek, and S. Tjoa, „Taxonomy of Data Fragment Classification Technique", 5th International Conference on Digital Forensics & Cyber Crime, Moscow, Russia, Springer, 2013.

R. Poisel, M. Rybnicek, and S. Tjoa, „Game-based Simulation of Distributed Denial of Service (DDoS) Attack and Defense Mechanisms of Critical Infrastructures", 27th IEEE International Conference on Advanced Information Networking and Applications (AINA), Barcelona, Spain, IEEE, 2013.

M. Rybnicek, R. Poisel, M. Ruzicka, and S. Tjoa, „A generic approach to critical Infrastructures modeling and simulation", ASE International Conference on Cyber Security, Washington, USA, IEEE, 2012.

M. Fischer, M. Rybnicek, and S. Tjoa, „A Novel Palm Vein Recognition Approach Based on Enhanced Local Gabor Binary Patterns Histogram Sequence", in 19th International Conference on Systems, Signals and Image Processing (IWSSIP), Vienna, Austria, IEEE, 2012.

M. Fischer, M. Rybnicek, and C. Fischer, „Evaluation of Illumination Compensation Approaches for ELGBPHS", in Springer Series Advances in Intelligent and Soft Computing, 7th International Conference on Computer Recognition Systems (CORES), Breslau, Poland, 2011.