

Christophe Rosenberger

Full professor
Computer science

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Education

- 2006 **Habilitation in Computer Science**, *University of Orleans*, France.
- 1996–1999 **PhD in Computer Science**, *University of Rennes 1*, France.
- 1994–1996 **Master in Computer Science**, *University of Rennes 1*, France.
- 1991–1993 **Bachelor in Mathematics**, *University of Rennes 1*, France.

Positions

- Since 2007 **Full Professor**, *ENSICAEN*, GREYC research lab.
 - Teaching in computer science (digital identity, biometrics, machine learning),
 - Research in biometrics (behavior, quality of biometric data, template protection),
- 2000–2007 **Associate Professor**, *INSA Centre Val de Loire*, PRISME research lab.
- 1999–2000 **Post-doc**, *Ecole Saint Cyr Coetquidan*, CREC research lab.
- 1996–1999 **PhD**, *ENSSAT*, IETR research lab.

Awards

- 2018 **Promotion Full professor exceptional class**, (*CNU*).
- Best Full paper award**, *CyberWorlds conference in Singapore*.
- 2015 **Best papers in biometrics**, 2 selected among ones published in *Elsevier journals*.
- 2011 **Asgard laureate**, *French Embassy in Norway*.
- Since 2005 **Excellence Research grant (PEDR)**, *French government*.

Activities

- Responsibility Director of the GREYC lab since 2019
 - Member of National Council of University (computer science section) since 2018
 - Chair track "Cybersecurity & Biometrics" at the Cyberworlds conference since 2017
 - Guest editor "Special Issue on CyberSecurity & Biometrics for a better Cyberworld" in the Elsevier Future Generation Computer Systems journal
- Supervision 18 PhD students (5 in progress), 9 Master students
- Publications 16 book chapters, 37 international journals, 156 international conferences, 16 invited conferences, 5 national journals, 39 national conferences, 3 patents.
H-index 30, 3900 citations
- Reviewing IEEE Transactions on Information Forensics and Security, Computers & Security, IET biometrics, ISBA, IJCB, BTAS, ICB, ICISSP, ICPR ...
- Committee 50 PhD, 6 faculty members, 6 habilitation
- Projects Responsible of more than 30 industrial contracts, participants in 10 national and international projects (for a total of 2 millions euros)

Bibliography (extract)

Book chapter

- [1] Zhigang Yao, Jean-Marie Le Bars, Christophe Charrier, and Christophe Rosenberger. Fingerprint quality assessment: Matching performance and image quality. In *Book on Biometric Security and Privacy*, pages 1–19. Springer, 2017.
- [2] Mohamad El-Abed, Patrick Lacharme, and Christophe Rosenberger. Privacy and security assessment of biometric systems. In *Book on Advances in Security and Privacy of Biometric Systems*, A. Teoh, D. Ngo, and J. Hu (Editors). Cambridge Scholars Publishing, 2015.
- [3] Romain Giot, Baptiste Hemery, Estelle Cherrier, and Christophe Rosenberger. Multibiometrics. In *ISTE WILEY Book on "Signal and Image Processing for Biometrics"*, pages 167–194. Wiley Online Library, 2012.
- [4] Mohamad El-Abed, Christophe Charrier, and Christophe Rosenberger. Evaluation of biometric systems. In *Book on New Trends and developments in biometrics*. InTech, 2012.
- [5] Rima Belguechi, Estelle Cherrier, Vincent Alimi, Patrick Lacharme, and Christophe Rosenberger. An overview on privacy preserving biometrics. In *Book on Recent Application in Biometrics*. InTech, 2011.
- [6] Romain Giot, Mohamad El-Abed, and Christophe Rosenberger. Keystroke dynamics overview. In *Book on Biometrics*. InTech, 2011.
- [7] Fouad Cherifi, Baptiste Hemery, Romain Giot, Marc Pasquet, and Christophe Rosenberger. Performance evaluation of behavioral biometric systems. In *Book on Behavioral Biometrics for Human Identification: Intelligent Applications*, pages 57–74. IGI Global, 2010.
- [8] Marc Pasquet, Christophe Rosenberger, and Félix Cuozzo. Security for electronic commerce. In *Encyclopedia of Information Science and Technology, Second Edition*, pages 3383–3391. IGI Global, 2009.
- [9] Cécile Delgorge-Rosenberger and Christophe Rosenberger. Evaluation of medical image compression. In *Handbook of Research on Advanced Techniques in Diagnostic Imaging and Biomedical Applications*, pages 447–459. IGI Global, 2009.
- [10] Christophe Rosenberger, Sébastien Chabrier, Hélène Laurent, and Bruno Emile. Unsupervised and supervised image segmentation evaluation. In *Book on Advances in image and video segmentation*, pages 365–393. IGI Global, 2006.

International journals

- [11] Denis Migdal and Christophe Rosenberger. Statistical modeling of keystroke dynamics samples for the generation of synthetic datasets. *Elsevier Journal on Future Generation Computer Systems, Special Issue on CyberSecurity & Biometrics for a better Cyberworld (ranked Q1 - JCR)*, 2019.
- [12] Abir Mehenni, Estelle Cherrier, Najoua Ben Amara, and Christophe Rosenberger. Double serial adaptation mechanism for keystroke dynamics authentication based on a single password. *Elsevier Journal on Computers & security (ranked Q1 - JCR)*, 2019.
- [13] Abir Mehenni, Estelle Cherrier, Najoua Ben Amara, and Christophe Rosenberger. Analysis of dodgington zoo classification for user dependent template update: Application to keystroke dynamics recognition. *Elsevier Journal on Future Generation Computer Systems, Special Issue on CyberSecurity & Biometrics for a better Cyberworld (ranked Q1 - JCR)*, 2019.
- [14] Aude Plateaux, Patrick Lacharme, Sylvain Vernois, Vincent Coquet, and Christophe Rosenberger. A comparative study of card-not-present e-commerce architectures with card schemes: What about privacy? *Elsevier Journal of information security and applications (ranked Q2 - JCR)*, 40:103–110, 2018.
- [15] Zhigang Yao, Jean-Marie Le Bars, Christophe Charrier, and Christophe Rosenberger. Literature review of fingerprint quality assessment and its evaluation. *IET Journal on Biometrics (ranked Q3 - JCR)*, 5(3):243–251, 2016.
- [16] Rima Belguechi, Adel Hafiane, Estelle Cherrier, and Christophe Rosenberger. Comparative study on texture features for fingerprint recognition: application to the biohashing template protection scheme. *Spie Journal of Electronic Imaging (ranked Q3 - JCR)*, 25(1):013033, 2016.

- [17] Romain Giot, Bernadette Dorizzi, and Christophe Rosenberger. A review on the public benchmark databases for static keystroke dynamics. *Elsevier Journal on Computers & Security (ranked Q1 - JCR)*, 55:46–61, 2015.
- [18] Audun Jøsang, Christophe Rosenberger, Laurent Miralabé, Henning Klevjer, Kent A Varmedal, Jérôme Daveau, Knut Eilif Husa, and Petter Taugbøl. Local user-centric identity management. *Springer Journal of trust management*, 2(1):1, 2015.
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- [22] Rima Belguechi, Estelle Cherrier, Christophe Rosenberger, and Samy Ait-Aoudia. An integrated framework combining bio-hashed minutiae template and pkcs15 compliant card for a better secure management of fingerprint cancelable templates. *Elsevier Journal on computers & security (ranked Q1 - JCR)*, 39:325–339, 2013.
- [23] Romain Giot, Mohamad El-Abed, and Christophe Rosenberger. Fast computation of the performance evaluation of biometric systems: Application to multibiometrics. *Elsevier Journal on Future Generation Computer Systems (ranked Q1 - JCR)*, 29(3):788–799, 2013.
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