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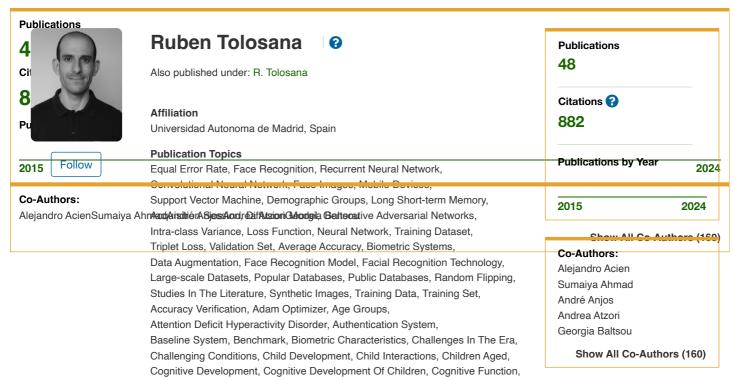All          ⌄                                                                                    🔍

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**Affiliation**

Universidad Autonoma de Madrid, Spain

**Publication Topics**

Equal Error Rate, Face Recognition, Recurrent Neural Network, Convolutional Neural Network, Face Images, Mobile Devices, Support Vector Machine, Demographic Groups, Long Short-term Memory, Acquisition Sessions, Diffusion Models, Generative Adversarial Networks, Intra-class Variance, Loss Function, Neural Network, Training Dataset, Triplet Loss, Validation Set, Average Accuracy, Biometric Systems, Data Augmentation, Face Recognition Model, Facial Recognition Technology, Large-scale Datasets, Popular Databases, Public Databases, Random Flipping, Studies In The Literature, Synthetic Images, Training Data, Training Set, Accuracy Verification, Adam Optimizer, Age Groups, Attention Deficit Hyperactivity Disorder, Authentication System, Baseline System, Benchmark, Biometric Characteristics, Challenges In The Era, Challenging Conditions, Child Development, Child Interactions, Children Aged, Cognitive Development, Cognitive Development Of Children, Cognitive Function, Convolutional Layers, Deep Learning, Demographic Attributes

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**Biography**

Ruben Tolosana received the M.Sc. degree in Telecommunication Engineering, and the Ph.D. degree in Computer and Telecommunication Engineering, from Universidad Autonoma de Madrid, in 2014 and 2019, respectively. In 2014, he joined the Biometrics and Data Pattern Analytics – BiDA Lab at the Universidad Autonoma de Madrid, where he is currently Assistant Professor. He is a member of the ELLIS Society, Technical Area Committee of EURASIP, and Editorial Board of the IEEE Biometrics Council Newsletter. His research interests are mainly focused on signal and image processing, pattern recognition, and machine learning, particularly in the areas of DeepFakes, Human-Computer Interaction, Biometrics, and Health. He is author of more than 80 scientific articles published in international journals and conferences. He has served as General Chair and Program Chair (AVSS 2022), and Area Chair (IJCB 2023, ICPR 2022) in top conferences. Dr. Tolosana has also received several awards such as the European Biometrics Industry Award (2018) from the European Association for Biometrics (EAB) and the Best Ph.D. Thesis Award in 2019–2022 from the Spanish Association for Pattern Recognition and Image Analysis (AERFAI).

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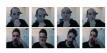Year: 2024 | Volume: 12 | Journal Article | Publisher: IEEE

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**DeepFace-Attention: Multimodal Face Biometrics for Attention Estimation With Application to e-Learning**
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**GANDiffFace: Controllable Generation of Synthetic Datasets for Face Recognition with Realistic Variations**
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**AI4Food-NutritionFW: A Novel Framework for the Automatic Synthesis and Analysis of Eating Behaviours**
Sergio Romero-Tapiador; Ruben Tolosana; Aythami Morales; Julian Fierrez; Ruben Vera-Rodriguez; Isabel Espinosa-Salinas; Gala Freixer; Enrique Carrillo de Santa Pau; Ana Ramírez de Molina; Javier Ortega-Garcia
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Luis F. Gomez; Julian Fierrez; Aythami Morales; Mahdi Ghafourian; Ruben Tolosana;
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☐ **Mobile Passive Authentication through Touchscreen and Background Sensor Data**
Giuseppe Stragapede; Ruben Vera-Rodriguez; Ruben Tolosana; Aythami Morales;
Alejandro Acien; Gaël Le Lan
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Year: 2022 | Volume: 10, Issue: 4 | Journal Article | Publisher: IEEE

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☐ **DeepSign: Deep On-Line Signature Verification**
Ruben Tolosana; Ruben Vera-Rodriguez; Julian Fierrez; Javier Ortega-Garcia
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Year: 2021 | Volume: 3, Issue: 2 | Journal Article | Publisher: IEEE

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☐ **SensitiveNets: Learning Agnostic Representations with Application to Face Images**
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---

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