Silvio Barra, PhD

Personal Information

Place and Date of birth:	Battipaglia (SA), Italy | 07 August 1985
Residence Address:	Via Giacinto Vicinanza 42, 84123, Salerno (SA), ITALY
Living Address:	Via Cupa Parisi 2, 84133, Salerno (SA), ITALY
Phone Number:	+39 328 6683799
email:	barra.silvio@gmail.com, silvio.barra@unina.it, silvio.barra@unica.it
pec:	silvio.barra@pec.it
WebPage:	https://www.docenti.unina.it/silvio.barra
LinkedIn:	https://it.linkedin.com/in/silvio-barra-113b5360
ResearchGate:	https://www.researchgate.net/profile/Silvio_Barra
Current Postion:	Researcher at the Department of Electrical and Information Technologies Engineering (DIETI) at the University of Naples, "Federico II"

University Education

7 March 2016 — **Ph.D. in Computer Science**
from University of Cagliari with a thesis titled "Design of a Multi-biometric Platform, based on physical traits and physiological measures: Face, Iris, Ear, ECG and EEG.".

26 July 2012 — **M.S. in Computer Science cum laude**
from University of Salerno, with a thesis titled "Un nuovo algoritmo per l'analisi della rappresentatività dei campioni nel riconoscimento dell'iride basato sull'entropia".

26 February 2009 — **B.S. in Computer Science cum laude**
from University of Salerno, with a thesis titled "User Agent Interface".

Languages

Mother Tongue — **Italian**

Other Languages — **English - B2 Level**
Examination Level: ESV Level 1 Certificate in ESOL International All Modes (B2 CEFR)
Examination Session: 30 March 2017
Candidate Number: IT-0011019
Final Grade: PASS WITH MERIT

Portuguese
Nìvel A2 - Universidade da Beira Interior - Classificação de **15 valores** - apreciação qualitativa de **Bom**, auferindo de 2ECTS.

Research Fellowships Activities

March 2020 - Present   Full-Time Type-A Researcher Contract at the Department of Electrical and Information Technological Engineering of the University of Naples "Federico II", for the competitive sector (in italian, "settore concorsuale") 01/B1 - Informatica, SSD INF/01 (codice di selezione **3_PON_AIM_RTDA_L1_2019**, pubblicato nella "Gazzetta Ufficiale" - 4a serie speciale – n. 80 del 08.10.2019).

July 2017 - February 2020   Full-Time Type-A Researcher Contract at the Department of Mathematics and Computer Sciences of the University of Cagliari, for the competitive sector (in italian, settore concorsuale) 01/B1 - Informatica, SSD INF/01 (codice di selezione **rtdaF_0317_01/B1**, (D.R. 455 del 24.02.2017, pubblicato nella "Gazzetta Ufficiale" "Gazzetta Ufficiale" - 4a serie speciale – n. 20 del 21.03.2017).

Jan-Dec 2016   Research Fellowship for **1 year** at the Institute for High Performance Computing and Networking (ICAR) of the National Research Council(CNR), cod. ICAR-004-2015-NA.

2013-2015   Ph.D. Grant (XXVIII ciclo) at the Department of Mathematics and Computer Science of the University of Cagliari (**3 years**)

Oct-Dec 2012   Scholarship Grant for **1 year** at CeRICT, Centro Regionale Information and Communication Technology scrl, Benevento, Master in Security and Intelligent System, cod. PON01_01687.

Work Experience

2011   Temporary Contract (Contratto di lavoro a Progetto) at the AllInit s.r.l. (Fisciano - SA)

2009   Temporary Contract (Contratto di lavoro a Progetto) at the BATTISTONI RESEARCH (Fisciano - SA)

Involvements in Industrial and Academic Research Projects

July 2019 - Present	Coordinatore progetto "A2DAM: Action/Activity Dual Acquisition Mode", Progetto biennale finanziato dalla Fondazione di Sardegna - Esercizio finanziario 2018.
March 2018 - Present	Collaborazione alle attività di ricerca e sviluppo con lo Spin-Off Visio-Scientiae diretto dal Prof. Salvatore Carta dell'Università di Cagliari.
July 2017 - March 2020	Partecipazione al Progetto "ILEARNTV, Anytime, Anywhere" (DD n.1937 05.06.2014, CUP F74G14000200008 F19G14000910008), supportato dal MIUR sotto il programma "Smart Cities and Communities and Social Innovation"
Ottobre 2011	Partecipazione al progetto Bosco di San Francesco, di HQuadro s.r.l., per lo studio e l'implementazione di un software su piattaforma Android per la localizzazione dei radiofari A-TAG3
Febbraio - Marzo 2010	Partecipazione al progetto SAVRO-IP (Erasmus Intensive Program) presso la MANN+HUMMEL, Kaiserslautern, GERMANY.
Febbraio 2009	Partecipazione al progetto Value-Go, di Penelope s.r.l., per per lo studio e l'implementazione di un sistema ad agenti per la tracciabilità agro-alimentare.

Experience Abroad

29 May 2018 - 5 June 2018	"Erasmus+ Teaching Programme - Staff Mobility for Teaching, University of Las Palmas de Gran Canaria (ULPGC) - Las Palmas, SPAIN, within a scientific co-operation with the professor Modesto Castrillon-Santana.
Mar 2014 - Feb 2015	"Visiting Researcher" at the SOCIALab Laboratory of UBI - Universidade da Beira Interior - Covilha, PORTUGAL, within the scientific co-operation with the professor Hugo Proença.
Feb - Mar 2010	"Erasmus Intensive Program - SAVRO", at the MANN+HUMMEL, Kaiserslautern, GERMANY.

Awards and Recognitions

31 July 2019	**DAFNE Challenge Third Prize Winner** for an approach on digital anastylosys for the DAFNE challenge DAFNE launched by the CVMLab (Computer Vision and Multimedia Lab) of the University of Pavia.
21 December 2017	**"Best Student Paper Award"** @ International Workshop on Fuzzy Logic and Applications (WILF2016) - *"Two-Tier Image Features Clustering for Iris Recognition on Mobile"* by Abate A.F., **Barra S.**, D'Aniello F., Narducci F. - DOI:10.1007/978-3-319-52962-2_23

Involvements in International Conferences and Workshops

2020	**DASA 20**: The 2020 International Conference on Decision Aid Sciences and Applications (DASA'20), Online, November 8-9, 2020	**TPC**
2020	**iSCI 2020**: The 8th IEEE International Conference on Smart City and Informatization, Guangzhou, China, December 29, 2020 - January 1, 2021	**TPC**
2020	**DSAA 2020**: The 7th IEEE International Conference on Data Science and Advanced Analytics, 6-9 October 2020 Sidney, Australia	**TPC**
2020	**NSS 2020**: The 14th International Conference on Network and System Security, 25-27 Novembre 2020, Melbourne, Australia	**TPC**
2020	**ML4CS 2020**: The 3rd International Conference on Machine Learning for Cyber Security, 8-10 Ottobre 2020 Guangzhou, China	**TPC**
2020	**ICPRAM 2020**: 9th International Conference on Pattern Recognition Applications and Methods, 22-24 Febbraio 2020, LaValletta, Malta	**Intern. TPC**
2020	**AVI 2020**: International Conference on Advanced Visual Interfaces, June 9-12 2020, Island of Ischia, Italy	**Poster & Demo Chair**
2019	**IWBAAS 2019**: 2nd International Workshop on Biometrics-as-a-Service: Cloud-based Technology, Systems and Applications, co-located with DASC 2019, 5-8 August 2019, Fukuoka, Japan	**Program Chair**
2019	**iSCI 2019**: 7th International Conference on Smart City and Informatization, 12-15 November 2019, Guangzhou, China	**TPC**
2019	**EUSPN 2019**: The 10th International Conference on Emerging Ubiquitous Systems and Pervasive Networks (EUSPN), 4-7 November 2019, Coimbra, Portugal	**TPC**
2019	**CSS 2019**: 11th International Symposium on Cyberspace Safety and Security, 1-3 December 2019, Guangzhou, China	**TPC**
2019	**GPC 2019**: 14th International Conference on Green, Pervasive and Cloud Computing, 26-28 May 2019, Uberlandia, Brazil	**TPC**
2019	**ISBA 2019**: IEEE International Conference on Identity, Security and Behavior Analysis (ISBA) - 22 - 24 June 2019 - Hyderabad, INDIA	**TPC**
2018	**RABTMD 2018**: Recent Advances in Biometric Technology for Mobile Devices - 22 October 2018 - Los Angeles, California, co-located with BTAS 2018, the 9th IEEE International Conference on Biometrics: Theory, Applications, and Systems	**TPC**
2018	**SITIS 2018**: The 14h International Conference on SIGNAL IMAGE TECHNOLOGY and INTERNET BASED SYSTEMS - 26-29 November 2018 - Las Palmas de Gran Canaria, Spain	**TPC**
2018	**CSS 2018**: The 10th International Symposium on Cyberspace Safety and Security – October 29-31, 2018 – Amalfi – Italy	**TPC**
2018	**NSS 2018**: The 12th International Conference on Network and System Security, 27-29 August 2018, Honk Kong	**TPC**
2017	**IWBAAS 2017**: First International Workshop on Biometrics-as-a-Service: Cloud-based Technology, Systems and Applications, co-located with ICIAP 2017, 11-15 September 2017, Catania, ITALY	**Program Chair**

Guest Editorialship Activity

2020   **Electronics**, MDPI, (ISSN: 20799292), Member of the Editorial Board as Topic Editor

2020   **Smart Cities**, MDPI, (ISSN: 26246511), Special Issue on "Cloud-based Biometrics for Smart Cities" - Guest Editor with Salvatore Mario Carta and Alessandro Sebastian Podda

2020   **Pattern Recognition Letters**, Elsevier BV, (ISSN: 01678655), Virtual Special Issue on "Biometrics in Smart Cities: Techniques and Applications (BI_SCI)" - Guest Editor with Michele Nappi, Fabio Narducci, Aniello Castiglione and Vijayakumar Pandi

2017   **IEEE Cloud Computing**, IEEE, (ISSN: 0167-8655), Special Issue on "Biometrics-as-a-Service" - Guest Editor with K.K.Raymond Choo, Fabio Narducci and Arcangelo Castiglione for a Special Issue on "Biometrics-as-a-Service", for the journal/magazine IEEE Cloud Computing.

Schools, Conferences and Seminars

28 Sep - 2 Oct 2020	International Conference ono Advanced Visual Interfaces (AVI 2020), Ischia Island, ITALY
5-8 Aug 2019	17th IEEE International Conference on Dependable, Autonomic and Secure Computing (DASC2019), Fukuoka, JAPAN
26-28 May 2019	14th International Conference on Green, Pervasive and Cloud Computing (GPC2019), Uberlandia (MG), BRAZIL
18-19 Mar 2019	1st National CINI Congress on Artificial Intelligence, Roma, ITALY
29-31 Oct 2018	10th International Conference on Cyberspace Safety and Security (CSS 2018), Amalfi, Salerno, ITALY
3-5 Oct 2018	GARR Conference 2018, Cagliari, ITALY
27-29 Aug 2018	12th International Conference on Network and System Security (NSS 2018), Hong Kong, CHINA
20-24 Aug 2018	24th International Conference on Pattern Recognition (ICPR 2018), Beijing, CHINA
7-8 Jun 2018	6th International Workshop on Biometrics and Forensics (IWBF 2018), Sassari, ITALY
27 Apr 2018	Copernicus Training and Information Session, Grand Hotel Salerno, Salerno, ITALY International Workshop on Biometrics and Forensics (IWBF 2018), Sassari, ITALY
11-15 Sep 2017	19th International Conference on Image Analysis and Processing (ICIAP 2017), Catania, ITALY
19-21 Dec 2016	The Eleventh International Workshop on Fuzzy Logic and Applications (WILF 2016), Napoli, ITALY
2-4 Jun 2016	2016 IEEE International Workshop on Biometrics and Image Forensics (BIF 2016), Palinuro (SA), ITALY
7-11 Sep 2015	International Workshop on Recent Advances in Digital Security: Biometrics and Forensics (BioFor) 2015. co-locato con International Conference on Image Analisys and Processing (ICIAP 2015), Genova, Italy, 7-11 September 2015, Genova, ITALY
17 Oct 2014	2014 IEEE Workshop on Biometric Measurements and System for Security and Medical Applications (BIOMS 2014). Roma, ITALY
8-11 Jul 2013	10th Edition of International Summer School on Software Engineering (ISSSE 2013), Università degli Studi di Salerno, Fisciano(SA), ITALY
11-15 Jun 2013	BIOMETRICS 2013 – International Summer School on Biometrics for Secure Authentication, Alghero (SS), ITALY
3-8 Mar 2013	Bertinoro International Spring School (BISS) 2013, Bertinoro(FC), ITALY
22-26 Oct 2012	International School "Machine Vision" (VisMac) 2012, Genova, ITALY
14 Sep 2012	2012 IEEE Workshop on Biometric Measurements and System for Security and Medical Applications (BIOMS 2012), Salerno, ITALY

Academic Teaching and Lecturing Activity

A.A. 2020/21   Laboratorio di Basi di Dati @ **University of Naples, "Federico II"**
Teacher of the Bachelor Degree course *Laboratory of Databases* (in italian "Laboratorio di Basi di Dati"), s.s.d. INF/01, 3 CFU, held at the Department of Information Technology and Electrical Engineering of the University of Naples, "Federico II".

A.A. 2019/20   Laboratorio di Sistemi Operativi @ **University of Cagliari**
Teaching Assistant of the Bachelor Degree course *Laboratory of Operating Systems* (in italian "Laboratorio di Sistemi Operativi"), s.s.d. INF/01, 6 CFU, held at the Department of Mathematics and Computer Science of the University of Cagliari.

A.A. 2018/19   Laboratorio di Sistemi Operativi @ **University of Cagliari**
Teaching Assistant of the Bachelor Degree course *Laboratory of Operating Systems* (in italian "Laboratorio di Sistemi Operativi"), s.s.d. INF/01, 6 CFU, held at the Department of Mathematics and Computer Science of the University of Cagliari.

A.A. 2017/18   Tecniche Avanzate di Image Processing @ **University of Cagliari**
Teacher of the Master Degree course *Advanced Techniques of Image Processing* (in italian "Tecniche Avanzate di Image Processing"), s.s.d. INF/01, 6 CFU, held at the Department of Mathematics and Computer Science of the University of Cagliari.

Laboratorio di Sistemi Operativi @ **University of Cagliari**
Teaching Assistant of the Bachelor Degree course *Laboratory of Operating Systems* (in italian "Laboratorio di Sistemi Operativi"), s.s.d. INF/01, 6 CFU, held at the Department of Mathematics and Computer Science of the University of Cagliari.

A.A. 2016/17   Gestione dell'informazione e della conoscenza in applicazioni complesse @ **University of Naples "Parthenope"**
Teacher of the Master Degree Course *Software Engineering* (in italian "Gestione dell'informazione e della conoscenza in applicazioni complesse"), s.s.d. INF/01, 6 CFU, held at the Department of Science and Technology of the University of Naples "Parthenope".

A.A. 2015/16   Architettura e Programmazione di Reti Avanzate e LAB @ **University of Naples "Parthenope"**
Teacher of the Master Degree Course *Software Engineering* (in italian "Architettura e Programmazione di Reti Avanzate e LAB"), s.s.d. INF/01, 6 CFU, held at the Department of Science and Technology of the University of Naples "Parthenope".

A.A. 2013/14   Biometria e Sicurezza @ **University of Cagliari**
Auxiliary Teaching and Examination Committee of the Bachelor Degree course **Biometrics and Security** (in italian "Biometria e Sicurezza"), s.s.d. INF/01, 6 CFU, of the Prof. A. Casanova, held at the Department of Mathematics and Computer Science of the University of Cagliari

Ingegneria del Software @ **University of Cagliari**
Auxiliary Teaching and Examination Committee of the Bachelor Degree course **Software Engineering** (in italian "Ingegneria del Software"), s.s.d. INF/01, 6 CFU, of the Prof. A. Casanova, held at the Department of Mathematics and Computer Science of the University of Cagliari

A.A. 2012/13 Biometria e Sicurezza @ **University of Cagliari**
Auxiliary Teaching and Examination Committee of the Bachelor Degree course **Biometrics and Security** (in italian "Biometria e Sicurezza"), s.s.d. INF/01, 6 CFU, of the Prof. A. Casanova, held at the Department of Mathematics and Computer Science of the University of Cagliari

Ingegneria del Software @ **University of Cagliari**
Auxiliary Teaching and Examination Committee of the Bachelor Degree course **Software Engineering** (in italian "Ingegneria del Software"), s.s.d. INF/01, 6 CFU, of the Prof. A. Casanova, held at the Department of Mathematics and Computer Science of the University of Cagliari

April 2013 Biometric Systems and Homeland Security @ **Sardegna Ricerche**
Cycle of 3 seminars on topics related to Image Processing, Biometric Systems and Homeland Security for a Master Course entitled **Biometric Systems and Homeland Security**, held by prof. A. Casanova

Attività di ricerca

Time-Series Analysis	
Financial Market Analysis	
Computer Vision & Pattern Recognition	Biometric Recognition
	Image Segmentation
	Individuals and Object Tracking
	Marker Detection in Videos and Images
	Background and Foreground Segmentation
Artificial Intelligence	Deep Learning approaches for image classification
	Convolutional Neural Networks
	Reinforcement Learning
	Recurrent Neural Networks
	Machine Learning approaches
	Fuzzy Logic
Biometrics	Face
	Iris
	Ear
	Periocular
	EEG & ECG
	Metabolomics
Augmented Reality/Virtual Reality	Unity
	Markerless and Marker-based augmentation
	3D Object Reconstruction
VideoSurveillance	Camera Calibration
	Tracking Systems
	Behaviour Analysis

Coinvolgimenti in attività di revisione per riviste internazionali

since 2020	**IEEE Transactions on Engineering Management** - IEEE (00189391, 15580040)
since 2020	**Journal of Ambient Intelligence and Humanized Computing** - Springer Verlag (1868-5145, 1868-5137)
since 2018	**Applied Sciences** - Multidisciplinary Digital Publishing Institute (MDPI) (2076-3417)
since 2018	**Sensors** - Multidisciplinary Digital Publishing Institute (MDPI) (1424-8220, 1424-3210)
since 2017	**IET Image Processing** - Institute of Electrical Engineers (1751-9659)
since 2017	**IEEE Communication Magazine** - IEEE (0163-6804)
since 2017	**Healthcare Technology Letters** - Institution of Engineering and Technology (2053-3713)
since 2016	**IEEE Access** - IEEE (2169-3536)
since 2016	**Image and Vision Computing** - Elsevier BV (0262-8856)
since 2016	**Information Fusion** - Elsevier BV (1566-2535)
since 2016	**Computer Methods and Programs in Biomedicine** - Elsevier BV (0169-2607).
since 2015	**Multimedia Tools and Application** - Kluwer Academic Publishers (1380-7501, 1432-1882)
since 2013	**Pattern Recognition Letters** - Elsevier BV (0167-8655)

Articoli su Riviste Internazionali

20. P. Barra, S. Barra, M. Nappi, and F. Narducci. "SAFFO: A SIFT based approach for digital anastylosis for fresco recOnstruction". In: *Pattern Recognition Letters* 138 (2020), pp. 123–129. ISSN: 01678655. DOI: 10.1016/j.patrec.2020.07.008. URL: https://www.scopus.com/inward/record.uri?eid=2-s2.0-85088009610&doi=10.1016%2fj.patrec.2020.07.008&partnerID=40&md5=883bac4f694837d6cc030e721bf890e2

19. S. Barra, S. M. Carta, A. Corriga, A. S. Podda, and D. R. Recupero. "Deep learning and time series-to-image encoding for financial forecasting". In: *IEEE/CAA Journal of Automatica Sinica* 7.3 (2020), pp. 683–692

18. P. Barra, S. Barra, C. Bisogni, M. De Marsico, and M. Nappi. "Web-Shaped Model for Head Pose Estimation: An Approach for Best Exemplar Selection". In: *IEEE Transactions on Image Processing* 29 (2020), pp. 5457–5468. ISSN: 10577149. DOI: 10.1109/TIP.2020.2984373

17. A.F. Abate, P. Barra, S. Barra, C. Molinari, M. Nappi, and F. Narducci. "Clustering facial attributes: Narrowing the path from soft to hard biometrics". In: *IEEE Access* 8 (2020), pp. 9037–9045. ISSN: 21693536. DOI: 10.1109/ACCESS.2019.2962010

16. M. De Marsico, A. Mecca, and S. Barra. "Walking in a smart city: Investigating the gait stabilization effect for biometric recognition via wearable sensors". In: *Computers and Electrical Engineering* 80 (2019). ISSN: 00457906. DOI: 10.1016/j.compeleceng.2019.106501

15. Silvio Barra, Aniello Castiglione, Fabio Narducci, Maria De Marsico, and Michele Nappi. "Biometric data on the edge for secure, smart and user tailored access to cloud services". In: *Future Generation Computer Systems* 101 (2019), pp. 534 –541. ISSN: 0167-739X. DOI: https://doi.org/10.1016/j.future.2019.06.019. URL: http://www.sciencedirect.com/science/article/pii/S0167739X19303188

14. G. Fenu, M. Marras, S. Barra, F. Giorgini, D. Zucchetti, and F. Chesi. "ILEARNTV: Un Ecosistema di Conoscenza Condivisa e Produzione Collaborativa per Innovare la Formazione". In: *Mondo Digitale* 18.81 (2019). ISSN: 1720898X. URL: https://www.scopus.com/inward/record.uri?eid=2-s2.0-85067823174&partnerID=40&md5=29b6cfe4d40bc3cbf599ebe5988be065

13. Silvio Barra, Maria De Marsico, Michele Nappi, Fabio Narducci, and Daniel Riccio. "A hand-based biometric system in visible light for mobile environments". In: *Information Sciences* 479 (2019), pp. 472 –485. ISSN: 0020-0255. DOI: https://doi.org/10.1016/j.ins.2018.01.010. URL: http://www.sciencedirect.com/science/article/pii/S0020025518300185

12. Silvio Barra, Carmen Bisogni, Michele Nappi, and Stefano Ricciardi. "F-FID: fast fuzzy-based iris de-noising for mobile security applications". In: *Multimedia Tools and Applications* (2019). ISSN: 1573-7721. DOI: 10.1007/s11042-019-7156-9. URL: https://doi.org/10.1007/s11042-019-7156-9

11. Giuseppe Cattaneo, Umberto Ferraro Petrillo, Andrea F. Abate, Fabio Narducci, and Silvio Barra. "Achieving efficient source camera identification on Hadoop". In: *Multimedia Tools and Applications* (2019). ISSN: 1573-7721. DOI: 10.1007/s11042-019-7561-0. URL: https://doi.org/10.1007/s11042-019-7561-0

10. S. Barra, K. R. Choo, M. Nappi, A. Castiglione, F. Narducci, and R. Ranjan. "Biometrics-as-a-Service: Cloud-Based Technology, Systems, and Applications". In: *IEEE Cloud Computing* 5.4 (2018), pp. 33–37. ISSN: 2325-6095. DOI: 10.1109/MCC.2018.043221012

9. David Freire-Obregón, Fabio Narducci, Silvio Barra, and Modesto Castrillón-Santana. "Deep learning for source camera identification on mobile devices". In: *Pattern Recognition Letters* (2018). ISSN: 0167-8655. DOI: https://doi.org/10.1016/j.patrec.

2018.01.005. URL: http://www.sciencedirect.com/science/article/pii/S0167865518300059

8. S. Barra, A. Castiglione, M. De Marsico, M. Nappi, and K. R. Choo. "Cloud-Based Biometrics (Biometrics as a Service) for Smart Cities, Nations, and Beyond". In: *IEEE Cloud Computing* 5.5 (2018), pp. 92–100. ISSN: 2325-6095. DOI: 10.1109/MCC.2018.053711670

7. Silvio Barra, Matteo Fraschini, Andrea Casanova, Aniello Castiglione, and Gianni Fenu. "PhysioUnicaDB: a dataset of EEG and ECG simultaneously acquired". In: *Pattern Recognition Letters* (2017). ISSN: 0167-8655. DOI: https://doi.org/10.1016/j.patrec.2017.12.017. URL: http://www.sciencedirect.com/science/article/pii/S0167865517304634

6. Andrea F. Abate, Silvio Barra, Luigi Gallo, and Fabio Narducci. "Kurtosis and skewness at pixel level as input for SOM networks to iris recognition on mobile devices". In: *Pattern Recognition Letters* 91 (2017). Mobile Iris CHallenge Evaluation (MICHE-II), pp. 37 –43. ISSN: 0167-8655. DOI: https://doi.org/10.1016/j.patrec.2017.02.002. URL: http://www.sciencedirect.com/science/article/pii/S0167865517300338

5. Silvio Barra, Andrea Casanova, Matteo Fraschini, and Michele Nappi. "Fusion of physiological measures for multimodal biometric systems". In: *Multimedia Tools and Applications* 76.4 (2017), pp. 4835–4847. ISSN: 1573-7721. DOI: 10.1007/s11042-016-3796-1. URL: https://doi.org/10.1007/s11042-016-3796-1

4. João Neves, Fabio Narducci, Silvio Barra, and Hugo Proença. "Biometric recognition in surveillance scenarios: a survey". In: *Artificial Intelligence Review* 46.4 (2016), pp. 515–541. ISSN: 1573-7462. DOI: 10.1007/s10462-016-9474-x. URL: https://doi.org/10.1007/s10462-016-9474-x

3. H. Proença, J. C. Neves, S. Barra, T. Marques, and J. C. Moreno. "Joint Head Pose/Soft Label Estimation for Human RecognitionIn-The-Wild". In: *IEEE Transactions on Pattern Analysis and Machine Intelligence* 38.12 (2016), pp. 2444–2456. ISSN: 0162-8828. DOI: 10.1109/TPAMI.2016.2522441

2. Silvio Barra, Andrea Casanova, Fabio Narducci, and Stefano Ricciardi. "Ubiquitous iris recognition by means of mobile devices". In: *Pattern Recognition Letters* 57 (2015). Mobile Iris CHallenge Evaluation part I (MICHE I), pp. 66 –73. ISSN: 0167-8655. DOI: https://doi.org/10.1016/j.patrec.2014.10.011. URL: http://www.sciencedirect.com/science/article/pii/S0167865514003286

1. SILVIO BARRA, MARIA DE MARSICO, MICHELE NAPPI, and DANIEL RICCIO. "COMPLEX NUMBERS AS A COMPACT WAY TO REPRESENT SCORES AND THEIR RELIABILITY IN RECOGNITION BY MULTI-BIOMETRIC FUSION". in: *International Journal of Pattern Recognition and Artificial Intelligence* 28.07 (2014), p. 1460003. DOI: 10.1142/S0218001414600039. eprint: https://doi.org/10.1142/S0218001414600039. URL: https://doi.org/10.1142/S0218001414600039

Pubblicazioni in Atti di Convegno

20. S. Barra, A. Carcangiu, S. Carta, A.S. Podda, and D. Riboni. "A Voice User Interface for football event tagging applications". In: ed. by Winckler M. Tortora G. Vitiello G. Association for Computing Machinery, 2020. ISBN: 9781450375351. DOI: 10.1145/3399715.3399967. URL: https://www.scopus.com/inward/record.uri?eid=2-s2.0-85093115389&doi=10.1145%2f3399715.3399967&partnerID=40&md5=42923759f59ab53f40b04be0ea3fe566

19. L. Anzalone, P. Barra, S. Barra, F. Narducci, and M. Nappi. "Transfer Learning for Facial Attributes Prediction and Clustering". In: *Communications in Computer and Information*

Science 1122 CCIS (2019). Ed. by Lai X. Martinez Perez G. Choo K.-K.R. Wang G. El Saddik A., pp. 105–117. ISSN: 18650929. DOI: [10.1007/978-981-15-1301-5_9](10.1007/978-981-15-1301-5_9)

18. G. Iovane, M. Nappi, M. Chinnici, A. Petrosino, A. Castiglione, and S. Barra. "A novel blockchain scheme combining prime numbers and iris for encrypting coding". In: Institute of Electrical and Electronics Engineers Inc., 2019, pp. 609–618. ISBN: 9781728130248. DOI: 10.1109/DASC/PiCom/CBDCom/CyberSciTech.2019.00117

17. S. Barra, R. Francese, and M. Risi. "Automating Mockup-Based Usability Testing on the Mobile Device". In: *Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)* 11484 LNCS (2019). Ed. by Miani R. Camargos L. Pasquini R. Zarpelao B. Rosas E., pp. 128–143. ISSN: 03029743. DOI: [10.1007/978-3-030-19223-5_10](10.1007/978-3-030-19223-5_10)

16. A. F. Abate, M. Nappi, S. Barra, and M. De Marsico. "What are you doing while answering your smartphone?" In: *2018 24th International Conference on Pattern Recognition (ICPR)*. 2018, pp. 3120–3125. DOI: 10.1109/ICPR.2018.8545797

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