ANDREA BRUNO

Academic Researcher and Developer

@ andbruno@unisa.it   📞 +39-089-96 9502   🔗 https://bruand81.github.io   📍 Avellino (AV), Italy

🐦 @bruand81   in linkedin.com/in/andreabruno81   🐙 github.com/bruand81

🆔 orcid.org/0000-0002-1821-79080

EXPERIENCE

Technical IT Staff

Computer Science Department at Universitá degli Studi di Salerno

📅 July 2023 – Present   📍 Fisciano (SA)

- IT Technical Support for Teaching and Research at the Department of Computer Science, University of Salerno.

CS Teacher (class A-41)

ITIS Alessandro Volta

📅 June 2020 – May 2021   📍 Napoli

- Teacher of Computer Science (class A-41) in Italian Secondary School

Technical researcher

Geco Renew

📅 June 2020 – May 2021   📍 Pompei (NA)

- Redaction of Research and Development project report.

Project Manager and Analyst for software security

Nilobit CZ s.r.o.

📅 Sept 2012 – Jan 2015   📍 Prague (Czech Republic)

- Android app (Project Manager)
- NiloAgent (company core product) functional analyst for customer customization, Security analyst and Software developer
- Customer Training & Helpdesk

RESEARCH

Research Fellow

Università degli Studi di Salerno

📅 May 2020 – July 2023   📍 Fisciano (SA)

- Digital Image and Video Forensics
- Big Data Analysis with Apache™Spark and Hadoop
- Biometry

Ph.D. Student

Università degli Studi di Salerno

📅 Oct 2016 – Mar 2020   📍 Fisciano (SA)

- Digital Image and Video Forensics
- Big Data Analysis with Apache™Spark and Hadoop
- Biometry

Research Fellow

Università degli Studi di Salerno

📅 May 2015 – Sept 2016   📍 Fisciano (SA)

MY LIFE PHILOSOPHY

"Gutta cavat lapidem"

MOST PROUD OF

🏛 **IWBDAF 2020**
Chair del 1° Workshop on Biometry and Data Forensics - Satellite workshop at ICPR 2020

🏆 **IW-ConSec 2019**
Chair of the 1st Workshop on Consumer Security

STRENGTHS

Hard-working   Eye for detail   Problem solver   Programming Languages

Java   Matlab   Python   C#   C++   Node JS   Bash   Swift   Kotlin

LANGUAGES

Italian ●●●●●

English ●●●●○

Spanish ●●●○○

French ●●●○○

EDUCATION

Ph.D. in Computer Science

Università degi Studi di Salerno

📅 Oct 2016 – Mar 2020   🎓 Pass

Thesis title: Advanced Uses of PNU for Video and Image Forensics

M.Sc. in Computer Science

Università degi Studi di Salerno

📅 Oct 2006 – Dec 2011   🎓 110/110 cum Laude

B.Sc. Computer Science

Università degi Studi di Salerno

📅 Oct 2001 – July 2006

TEACHING

Adjunct Professor
Università degli Studi di Salerno - Dipartimento di Ingegneria Industriale

📅 2021/2022 - 2022/2023   📍 Fisciano (SA)

Adjunct Professor for the course of *Software for Distributed Systems* in the Electronic Engineering Bachelor's Program.

Adjunct Professor
Università degli Studi di Salerno - Dipartimento di Informatica

📅 2021/2022   📍 Fisciano (SA)

Adjunct Professor for the course of *Object Oriented Programming* in the Computer Science Bachelor's Program.

Adjunct Professor
Università degli Studi Federico II - Scuola Politecnica delle Scienze di Base

📅 2021/2022   📍 Napoli (NA)

Adjunct Professor for the course of *Fundamentals of Basic Computer Science* in the Bachelor's Program in Management Engineering for Logistics and Production.

Adjunct Professor
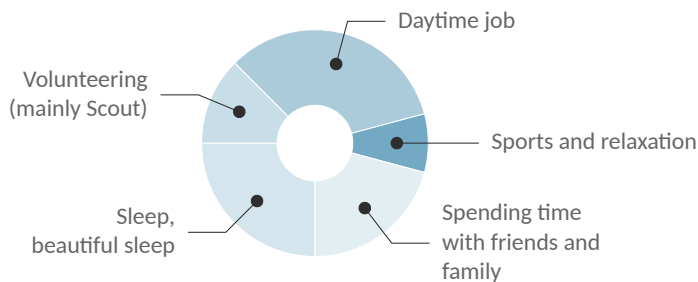**Università degli Studi di Salerno - Dipartimento di Ingegneria Industriale**

📅 2020/2021   📍 Fisciano (SA)

Adjunct Professor for the course of *Fundamentals of Computer Science and Programming* in the Bachelor's Program in Mechanical and Management Engineering.

A DAY OF MY LIFE

PUBLICATIONS

📄 Journal Articles

- Bruno, Andrea and Giuseppe Cattaneo (2020). "An experimental estimate of the impact produced on PNU by new generation video codecs". In: *International Journal of Embedded Systems* 12.4, pp. 424–433.

- Das, Srijan et al. (2019). "Lip biometric template security framework using spatial steganography". In: *Pattern Recognition Letters* 126. Robustness, Security and Regulation Aspects in Current Biometric Systems, pp. 102–110. ISSN: 0167-8655. DOI: `https://doi.org/10.1016/j.patrec.2018.06.026`. URL: `http://www.sciencedirect.com/science/article/pii/S0167865518302721`.

- Esposito, Christian et al. (2018). "On the optimal tuning and placement of FEC codecs within multicasting trees for resilient publish/subscribe services in edge-IoT architectures". In: *Future Generation Computer Systems* 88, pp. 140–150. ISSN: 0167-739X. DOI: `https://doi.org/10.1016/j.future.2018.05.026`. URL: `http://www.sciencedirect.com/science/article/pii/S0167739X18301912`.

REFEREES

Prof. Giuseppe Cattaneo
@ Università degi Studi di Salerno
✉ cattaneo@unisa.it

Prof. Giuseppe Persiano
@ Università degi Studi di Salerno
✉ pino.persiano@unisa.it

Prof. Fernando Pérez-González
@ Universida de Vigo
✉ fperez@gts.uvigo.es

INTERESTS AND VOLUNTEERING

- 🌡 **Scouting:** Scout since 1994, Scoutmaster since 2001.
- 📷 **Photography:** I am a amateur photographer.
- ✈ **Traveling:** I love traveling and writing about my travels.

- Albano, Pietro, Andrea Bruno, Bruno Carpentieri, Aniello Castiglione, Arcangelo Castiglione, Francesco Palmieri, Raffaele Pizzolante, Kangbin Yim, et al. (2014). "Secure and distributed video surveillance via portable devices". In: *Journal of Ambient Intelligence and Humanized Computing* 5.2, pp. 205–213. ISSN: 1868-5145. DOI: `10.1007/s12652-013-0181-z`. URL: `https://doi.org/10.1007/s12652-013-0181-z`.

👥 Conference Proceedings

- Bruno, Andrea and Giuseppe Cattaneo (2019). "Experimental Analysis of the Pixel Non Uniformity (PNU) in SEM for Digital Forensics Purposes". In: *Pervasive Systems, Algorithms and Networks*. Ed. by Christian Esposito, Jiman Hong, and Kim-Kwang Raymond Choo. Cham: Springer International Publishing, pp. 313–320. ISBN: 978-3-030-30143-9.

- – (2018). "Effects of H.265 Encoding on PNU and Source Camera Identification". In: *Proceedings of the 2018 Conference on Research in Adaptive and Convergent Systems*. RACS '18. Honolulu, Hawaii: ACM, pp. 279–284. ISBN: 978-1-4503-5885-9. DOI: `10.1145/3264746.3264770`. URL: `http://doi.acm.org/10.1145/3264746.3264770`.

- Bruno, Andrea, Giuseppe Cattaneo, et al. (2017). "Distributed Anti-Plagiarism Checker for Biomedical Images Based on Sensor Noise". In: *New Trends in Image Analysis and Processing – ICIAP 2017*. Ed. by Sebastiano Battiato et al. Cham: Springer International Publishing, pp. 343–352. ISBN: 978-3-319-70742-6.

- Cattaneo, Giuseppe, Andrea Bruno, and Fabio Petagna (2017). "H-264/RTSP Multicast Stream Integrity". In: *Image Analysis and Processing - ICIAP 2017*. Ed. by Sebastiano Battiato et al. Cham: Springer International Publishing, pp. 558–568. ISBN: 978-3-319-68548-9.

- Cattaneo, Giuseppe, Gianluca Roscigno, and Andrea Bruno (2016). "Using PNU-Based Techniques to Detect Alien Frames in Videos". In: *Advanced Concepts for Intelligent Vision Systems*. Ed. by Jacques Blanc-Talon et al. Cham: Springer International Publishing, pp. 735–746. ISBN: 978-3-319-48680-2.

- Albano, Pietro, Andrea Bruno, Bruno Carpentieri, Aniello Castiglione, Arcangelo Castiglione, Francesco Palmieri, Raffaele Pizzolante, and Ilsun You (2012). "A Secure Distributed Video Surveillance System Based on Portable Devices". In: *Multidisciplinary Research and Practice for Information Systems*. Ed. by Gerald Quirchmayr et al. Berlin, Heidelberg: Springer Berlin Heidelberg, pp. 403–415. ISBN: 978-3-642-32498-7.

PRIVACY

📅 **Date:** January 10, 2024

✏️ **Signature:**

Andrea Bruno