# Hichem Felouat

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**Ph.D. Student**
National Institute of Informatics (NII)
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## Personal Profile

I am a PhD student at the National Institute of Informatics (NII) in Tokyo, specializing in data privacy and information security. My research focuses on enhancing the security of biometric systems against deepfake attacks. My academic interests include information security, biometric data privacy, artificial intelligence, and computer vision.

## Education

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|---|---|
| **Ph.D. of Science**<br>10/2022 – 07/2027 | **Ph.D. - Information Security**<br>National Institute of Informatics (NII) – Japan |
| **Ph.D. of Science**<br>2016 - 2021 | **PhD - Data Science and Computing**<br>Blida University, LRDSI Laboratory - Algeria |
| **Masters of Science**<br>2013 - 2015 | **Masters - Artificial intelligence**<br>Jijel University - Algeria |
| **Bachelor of Science**<br>2010 - 2013 | **Bachelor - Computer Science**<br>Jijel University – Algeria |

## Areas of expertise

- Artificial Intelligence
- ML / DL / Computer Vision
- Deepfake Detection / Information Security
- Data Analysis / Data Science

## Languages

- **English** : Advanced level
- **French** : Advanced level (second language)
- **Arabic** : High level (native language)

## Experience

- Teaching Assistant, Jijel University, Algeria (2018-2019).
- Machine Learning and Deep Learning Trainer (2019-Present).
- Co-founder and President, Computer Sciences Club Jijel (CSCJ) (2011-2018).

## Publications

1. Felouat, Hichem, Huy H. Nguyen, Junichi Yamagishi, and Isao Echizen. "3DDGD: 3D Deepfake Generation and Detection Using 3D Face Meshes." IEEE Access (2025).
2. Felouat, Hichem, Huy H. Nguyen, Trung-Nghia Le, Junichi Yamagishi, and Isao Echizen. "eKYC-DF: A Large-Scale Deepfake Dataset for Developing and Evaluating eKYC Systems." IEEE Access (2024).
3. Shalabi, Fatma, Hichem Felouat, Huy H. Nguyen, and Isao Echizen. "Leveraging chat-based large vision language models for multimodal out-of-context detection." In International Conference on Advanced Information Networking and Applications, pp. 86-98. Cham: Springer Nature Switzerland, 2024.
4. Shalabi, Fatma, Huy H. Nguyen, Hichem Felouat, Ching-Chun Chang, and Isao Echizen. "Image-Text Out-Of-Context Detection Using Synthetic Multimodal Misinformation." In 2023 Asia Pacific Signal and Information Processing Association Annual Summit and Conference (APSIPA ASC), pp. 605-612. IEEE, 2023.
5. Younas, Aiman, and Hichem Felouat. "Autism Spectrum Disorder Classification Using The Most Correlated Features." In 2024 8th International Conference on Image and Signal Processing and their Applications (ISPA), pp. 1-6. IEEE, 2024.
6. Baaloul, Ali, Nadjia Benblidia, Fatma Zohra Reguieg, Mustapha Bouakkaz, and Hisham Felouat. "An arabic visual speech recognition framework with CNN and vision transformers for lipreading." Multimedia Tools and Applications (2024): 1-35.
7. Felouat, Hichem. "Functional and Structural Analysis of fMRI/MRI Images of The Brain Using Graph Matching According to a Parallel and Distributed Approach." PhD diss., University of Blida, 2021.
8. Felouat, Hichem, and Saliha Oukid-Khouas. "Graph Convolutional Networks and Functional Connectivity for Identification of Autism Spectrum Disorder." 2020 Second International Conference on Embedded & Distributed Systems (EDiS). IEEE, 2020.
9. Felouat, Hichem, and Saliha Oukid-Khouas. "Graph matching approach and generalized median graph for automatic labeling of cortical sulci with parallel and distributed algorithms." Cognitive Systems Research 54 (2019): 62-73.
10. Felouat, Hichem, and Saliha Oukid-Khouas. "Graph Matching and Generalized Median Graph for Automatic Annotation of Cortical Sulci." 2018 International Conference on Electrical Sciences and Technologies in Maghreb (CISTEM). IEEE, 2018