

Yuta NAKANO

Expérience professionnelle

Depuis 2018 Octobre

IMRA Europe S.A.S

Poste : Directeur du département

- Gestionnaire de plusieurs projets en intelligence artificielle (IA)
- Chercheur en IA notamment dans le domaine automobile
- Responsable de la valorisation des technologies IMRA

De 2016 Juin à 2018 Septembre

MEDIAN technologies

Poste : lead scientist R&D

- Chercheur en analyse d'images médicales comme CT, IRM
- Développeur de logiciel

De 2008 Avril à 2016 Mai

CANON Inc. (au Japon)

Poste : Ingénieur de recherche

- Chercheur en vision par ordinateur et IA notamment dans le domaine médical

Diplomes obtenus

2008	Doctorat en engineering	Université National de Yokohama Thèse de doctorat « A study of Evolutionary Medical Image Processing»
2005	Master en engineering	Université National de Yokohama Mémoire de maîtrise « Automatic Liver Region Extraction on 3D-PET using 3D-ACTIT»
2003	Licence en engineering	Université National de Yokohama



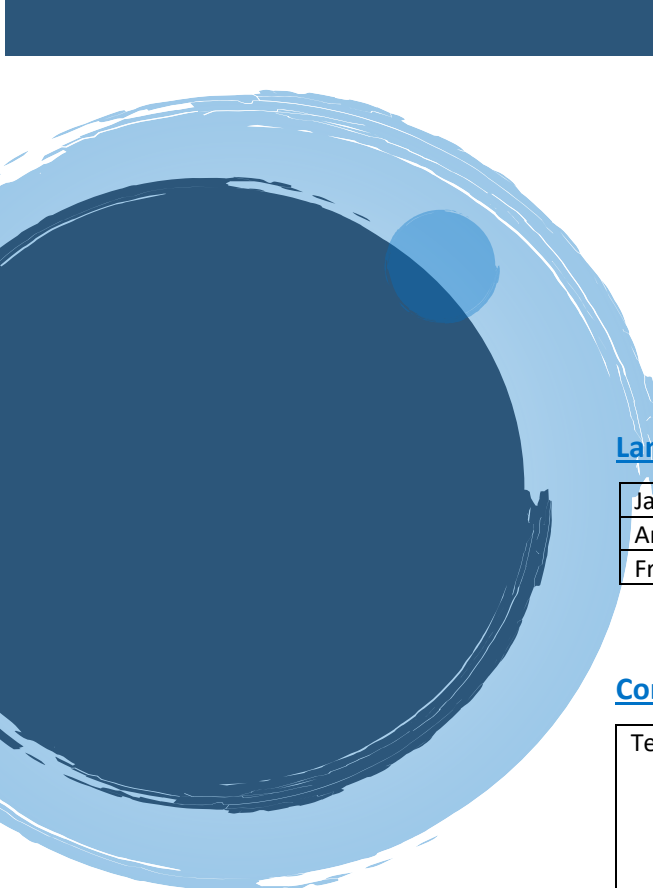
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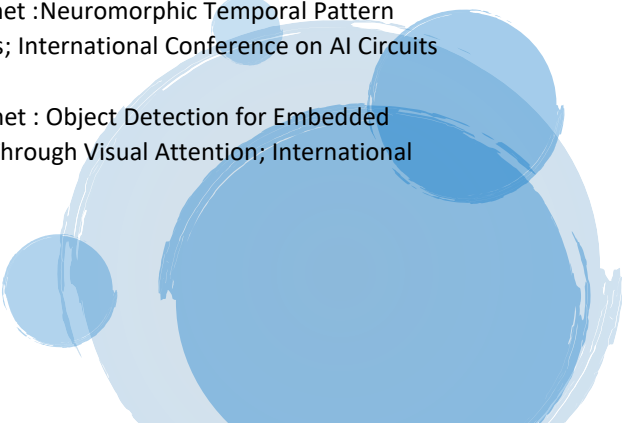
Langues

Japonais	Langue maternelle
Anglais	Fluent
Français	Avancé (DELF B2)

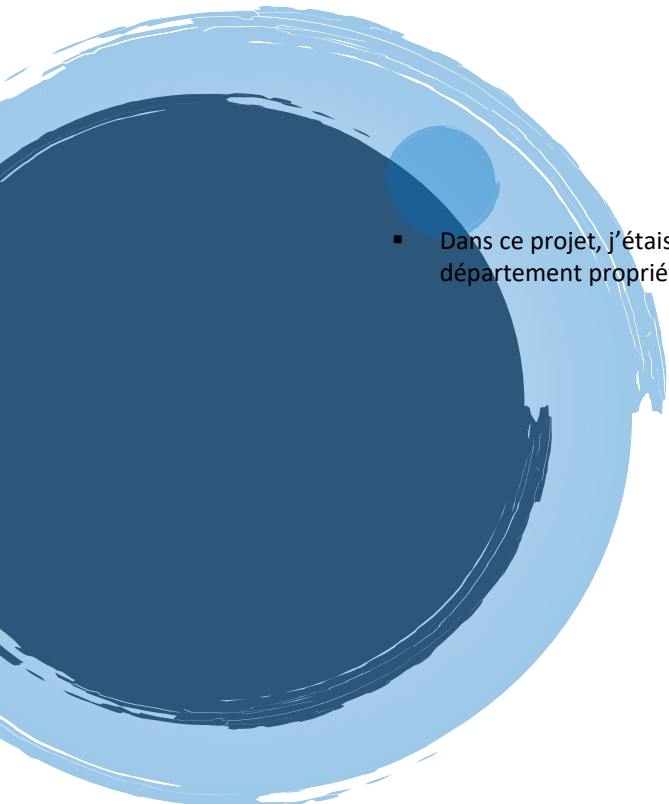
Compétences

Techniques	Intelligence Artificielle / Machine Learning
	Deep Learning pour la détection et reconnaissance d'objets
	Techniques d'optimisation Mathématiques
	Traitement et processus de formation d'images, de capteurs (caméras RGB et événementielles, Lidar, radar etc.)
	Méthodes statistiques (regression, etc)
	Classification (Deep Learning, Spiking Neural Network, Self-Organizing Maps, SVM, Boosting, etc)
	Segmentation (Graph cuts, Level set, etc)
	Evolutionary computation (Genetic algorithm, Genetic programming, Particle swarm optimization, etc)
Programmation	C / C++ (niveau expert)
	Java (niveau expert)
	Python (niveau expert)
Gestion de projet	SCRUM - Agile

Publications

- Conférences internationales (papiers et présentations orales)
 - Crescenzo Edoardo Mauriello, Hugo Bulzomi, Jean Martinet and Yuta Nakano : End-to-End Neuromorphic Lane Detection; International Workshop On Advances in Sensors and Interfaces **(2025)**
 - Hugo Bulzomi, Sadia Memudu, Yuta Nakano and Jean Martinet : Real-Time Pedestrian Detection at the Edge on a Fully Asynchronous Neuromorphic System; Conference on Computer Vision and Pattern Recognition workshop on Event-based Vision **(2025)**
 - Hugo Bulzomi, Yuta Nakano, Rémy Bendahan and Jean Martinet : Neuromorphic Temporal Pattern Detection with Spiking Neural Networks using Synaptic Delays; International Conference on AI Circuits and Systems **(2024)**
 - Hugo Bulzomi, Yuta Nakano, Rémy Bendahan and Jean Martinet : Object Detection for Embedded Systems Using Tiny Spiking Neural Networks: Filtering Noise Through Visual Attention; International Conference on Machine Vision Applications **(2023)**
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- Yuta Nakano, Kozo Kajiura, Atsushi Hori and Takeshi Fujita : Event Data Representation based on Time Stamp for Pedestrian Detection; International Conference on Intelligent Vehicles and Applications, Prague, Czechia 03-04 July (2023)
- Yuta Nakano, Takeshi Fujita et al. : Data representation of event data for object detection; Symposium on Sensing via Image Information, Yokohama, Japan, 14-16 June (2023)
- Sylvain Bagnoux, Rémy Bendahan, Yuta Nakano et al. : Control of an Air-Cored Resonant Induction Motor ; International Conference on Electrical Machines, Valencia, Spain, 5-8 September (2022)
- Yuta Nakano, Takeshi Fujita and Rémy Bendahan : Investigation of Performance Shift by Conversion from Convolutional Neural Networks to Spiking Neural Networks; ITS world congress, Hamburg, Germany, 11-15 October (2021)
- Yuta Nakano: Non-invasive phenotyping of hepatic fibrosis using unsupervised machine learning; ESMO (2018)
- Yuta Nakano, Estanislao Oubel, Johan Brag, Alice Doreille and Olivier Lucidarme: Quantitative imaging biomarker of disease progression in hepatocellular carcinoma and NASH; NASH workshop (2017)
- Yuta Nakano, Shinichi Shirakawa, Noriko Yata and Tomoharu Nagao: Automatic Construction of Image Transformation Algorithms Using Feature Based Genetic Image Network; Proc. of the 2010 IEEE Congress on Evolutionary Computation (2010)
- Yuta Nakano and Tomoharu Nagao : Automatic construction of moving object segmentation from video images using 3D-ACTIT; Proc. of The 2007 IEEE International Conference on Systems, Man, and Cybernetics (SMC 2007), pp.1153-1158, October 7-10, (2007)
- Yuta Nakano and Tomoharu Nagao: Automatic construction of abnormal signal extraction processing from 3D diffusion weighted image; Proc. of IWAIT-2007, Bangkok, Thailand, Jan.8-9, P5-05 (2007)
- Yuta Nakano and Tomoharu Nagao: Automatic extraction of internal organs region from 3D PET image data using 3D-ACTIT; Proc. of IWAIT-2006, Okinawa, Japan, Jan.10 (2006)
- Yuta Nakano and Tomoharu Nagao: Automatic construction of internal organs segmentation from PET image data using 3D-ACTIT; Proc of the Joint 2nd International Conference on Soft Computing and Intelligent Systems and 5th International Symposium on Advanced Intelligent Systems, SCIS & ISIS 2004, September 21-24, 2004, Yokohama (2004)
- Yuta Nakano and Tomoharu Nagao: 3D medical image processing using 3D-ACTIT; Automatic Construction of Tree-structural Image Transformation; Proc of the International Workshop on Advanced Image Technology IWAIT'04, January 12-13, 2004, Singapore (2004)
- Journal
 - Yuta Nakano and Tomoharu Nagao : Proposition of 3D-ACTIT and Its Application to PET image processing, Medical Imaging and Information Sciences, vol.24, No.4, pp.119-125 (2007)
 - Yuta Nakano and Tomoharu Nagao : Automatic construction of abnormal signal extraction processing from 3D diffusion weighted image, Journal of The Japanese Society of Medical Imaging Technology, Vol.25, No.5, pp.362-370 (2007)
 - Yuta Nakano and Tomoharu Nagao : Automatic extraction of liver regions from 3D-PET images using 3D-ACTIT, Journal of The Institute of Image Information and Television Engineering, Vol.62, No.3, pp.424-434 (2008)
- Brevets
 - Au moins 20 brevets ont été publicités par moi dans le domaine processus d'image et machine learning
 - e.g.
 - <https://docs.google.com/viewer?url=patentimages.storage.googleapis.com/pdfs/US8620048.pdf>
 - J'ai des expériences de investigation de 4,000 brevets pour lancer des produits

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- Dans ce projet, j'étais un chef qui a fait une stratégie d'investigation et négocié avec département propriété intellectuelle

