

# Latifah Nurahmi

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## Qualifications

- 2012 – 2015 **PhD** Robotics, Ecole Centrale de Nantes, Nantes, France  
2010 – 2012 **MSc** Design of Systems and Products, Ecole Centrale de Nantes, Nantes, France  
2005 – 2009 **BEng** Mechanical Engineering, Institut Teknologi Sepuluh Nopember, Surabaya, Indonesia

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## Research Interest

Design of mechanism, Kinematics, Dynamics, Reconfigurable manipulators, Parallel Manipulators, Cable driven parallel robots, Type synthesis

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## Career

- 2017 – present **Head of Industrial Robotics research focus**  
Center of Excellence of Mechatronics and Industrial Automation,  
Institut Teknologi Sepuluh Nopember, Surabaya, Indonesia
- 2015 – present **Assistant Professor**  
Department of Mechanical Engineering,  
Institut Teknologi Sepuluh Nopember, Surabaya, Indonesia
- 2012 – 2015 **Teaching Assistant**  
Department of Mechanical Engineering  
Ecole Centrale de Nantes, Nantes, France
- 2009 – 2010 **Lecturer**  
Department of Mechanical Engineering,  
Institut Teknologi Sepuluh Nopember, Surabaya, Indonesia

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## Awards

- 2018 **Best Interactive Poster**, 5<sup>th</sup> IFToMM Asian Mechanism and Machine Science  
2018 **IFToMM Young Delegate Program**, by IFToMM  
2018 **Best research and best presenter**, Indonesia Toray Science Foundation  
2017 **Indonesian-American Kavli Frontiers of Science**, by AIPI and US-NAS  
2017 **3<sup>rd</sup> Prize of MT180** (Ma Thèse en 180 secondes), by French Embassy, DIKTI, AIPI, IFI  
2015 **Best Student Paper Award**, 3<sup>rd</sup> IFToMM Symposium on Mechanism Design for Robotics

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## Research Grants

- June 2019 **World Class Professor 2019**  
November 2019 Funded by RISTEKDIKTI Indonesia
- March 2018 **Industry Academia Partnership Program, Indonesia – England (principal investigator)**  
March 2020 Funded by The Royal Academy of Engineering – Newton Funds
- January 2018 **International Joint Research, Indonesia – France (member)**  
December 2019 Funded by RISTEKDIKTI Indonesia
- June 2017 **International Joint Research of Local Fund, Indonesia – France (member)**  
January 2018 Funded by Department of Mechanical Engineering, ITS

- March 2017 **ITSF 23<sup>rd</sup> Science and Technology Research Grant (principal investigator)**  
March 2018 Funded by Indonesia Toray Science Foundation
- 27 Nov 2016 **Partenariat Hubert Curien Nusantara Indonesia – France (member)**  
12 Dec 2016 Funded by RISTEKDIKTI Indonesia
- 29 May 2014 **Partenariat Hubert Curien Amadeus Austria – France (member)**  
29 June 2014 Funded by MAEDI – MENESR France

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## Professional Activities

- 2018 **Invited speaker** at 5<sup>th</sup> IFToMM Asian Mechanism and Machine Science, Bangalore, India  
2017 **Session chair** of the 3<sup>rd</sup> International Conference on Mechanical Engineering (ICOME), Indonesia  
2016 **Visiting researcher** at Laboratory of Science and Numerical of Nantes, Ecole Centrale de Nantes, France

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## Reviewer Activities

- 2014 – present Annual reviewer in:  
1. Journal of Mechanisms and Robotics, ASME  
2. Mechanism and Machine Theory, Elsevier

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## Selected Publications

- Google scholar h-index 8 [1] **Nurahmi, L.**, Caro., S., Solichin, M., “A Novel Ankle Rehabilitation Device Based on a Reconfigurable 3-RPS Parallel Manipulator.”, Mechanism and Machine Theory, Vol. 134, pp. 135-150, 2019.
- Scopus h-index 6 [2] **Nurahmi, L.**, Gan, Dongming., “Dynamic Analysis of the 3-rRPS Metamorphic Parallel Mechanism Base on the Instantaneous Screw Axes.”, ASME 2019 International Design Engineering Technical Conferences, IDETC2019-97851, California, August 18 – 21, 2018.
- [3] **Nurahmi, L.**, Gan, Dongming., “Operation Mode and Workspace of a 3-rRPS Metamorphic Parallel Mechanism with a Reconfigurable Revolute Joint.”, 2018 International Conference on Reconfigurable Mechanisms and Robots (ReMAR), Delft, Netherlands, pp. 1-9, 2018.
- [4] **Nurahmi, L.**, Gan, Dongming., “Workspace Transition of 3-rRPS Metamorphic Parallel Mechanism.”, ASME 2018 International Design Engineering Technical Conferences, IDETC2018/86356, Quebec City, Canada, August 26 – 29, 2018.
- [5] **Nurahmi, L.**, Solichin, M., “Motion Type of 3-RPS Parallel Manipulator for Ankle Rehabilitation Device.”, IEEE International Conference on Advanced Mechatronics, Intelligent Manufacture, and Industrial Automation (ICAMIMIA), pp. 74-79, 2017.
- [6] **Nurahmi, L.**, Solichin, M., Harnany, D., Kurniawan, A., “Dimension Synthesis of 3-RPS Parallel Manipulator with Intersecting R-axes for Ankle Rehabilitation Device.”, IEEE International Conference on Advanced Robotics, pp. 269-274, 2017.
- [7] **Nurahmi, L.**, Caro, S., Wenger, P., Husty, M., and Schadlbauer, J., “Reconfiguration Analysis of a 4-RUU Parallel Manipulator.”, Mechanism and Machine Theory, Vol 96, Part 2, pp. 269–289, DOI: 10.1016/j.mechmachtheory.2015.09.004, 2016.
- [8] **Nurahmi, L.**, Schadlbauer, J., Caro, S., Husty, M., and Wenger, P., “Kinematic Analysis of the 3-RPS Cube Parallel Manipulator.”, ASME Journal of Mechanisms and Robotics, Vol. 7(1), pp. 011008-011008-11, 2015.