



6th Internacional Symposium on Multibody  
Systems and Mechatronics

Federal University of Santa Catarina in Brazil  
October 24th - 28th of 2017



*Best Student Paper Award*

*Gold*

presented to

Marina Baldissera de Souza

for the paper

Enumeration of kinematic chains with zero variety for epicyclic gear  
trains with one and two degrees of freedom

Marina Baldissera de Souza, Rodrigo de Souza Vieira, Daniel Martins



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Daniel Martins  
Award Committee

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Mario Acevedo  
Chair of the Award Committee  
IFTToMM Representative

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Martín Alejo Pucheta  
Award Committee





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## *Best Applied Paper Award*

### *Gold*

presented to

## Bruno Roccia

for the paper A computational aeroelastic framework for studying  
non-conventional aeronautical systems

Sergio Preidikman, Bruno Roccia, Marcos Verstraete, Luis Ceballos,  
Balakumar Balachandran



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Daniel Martins  
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*Best Paper Award*

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presented to

Andrea Piga Carboni

for the paper

Analysis of self-aligning mechanisms by means of matroid theory  
Andrea Piga Carboni, Henrique Simas, Daniel Martins



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*Best Student Applied Paper Award*

*Gold*

presented to

Melaine Desvaux

for the paper Behaviour comparison between mechanical epicyclic gears  
and magnetic gears

Melaine Desvaux, Bernard Multon, Hamid Ben Ahmed, Stéphane Sire



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## *Best Applied Paper Award*

*Silver*

presented to

**Daniel Ponce**

for the paper Kinetostatic model of the human knee for preoperative  
planning: Part B Clinical application for medical decision making  
Daniel Ponce, Julio Feller Golin, Ernesto Ponce, Rodrigo Roesler, Daniel  
Martins, Leonardo Mejia Rincon



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**Martín Alejo Pucheta**  
Award Committee







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*Best Paper Award*

*Silver*

presented to

Leonardo Mejia Rincon

for the paper Maximum isotropic force capability maps in planar  
cooperative systems: A practical study case

Juan Camilo Herrera Pineda, Leonardo Mejia Rincon, Roberto Simoni,  
Henrique Simas



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## *Best Student Paper Award*

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## Estevan Hideki Murai

for the paper

Actuated degree-of-control: a new approach for mechanisms design  
Estevan Hideki Murai, Roberto Simoni, Daniel Martins



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*Best Student Applied Paper Award*

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presented to

Radek Bulín

for the paper

Complex modelling and dynamical analysis of parallel cable mechanisms  
Radek Bulín, Michal Hajžman, Pavel Polach



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## *Best Applied Paper Award*

### *Bronze*

presented to

## Rogério Hecker

for the paper

Single-state friction model for control purposes  
Fernando Villegas, Rogelio Hecker, Gustavo Flores



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## *Best Paper Award*

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presented to

Zijia Li

for the paper

Kinematic Analysis for a Planar Redundant Serial Manipulator  
Zijia Li, Mathias Brandstötter, Michael Hofbaur



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## *Best Student Applied Paper Award*

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## Ferdinand Schwarzfischer

for the paper

The Dynamic Synthesis of an Energy-Efficient Watt-II-Mechanism  
Ferdinand Schwarzfischer, Mathias Hüsing, Burkhard Corves



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## *Best Student Paper Award*

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## Hiparco Lins Vieira

for the paper

Robust Critical Inverse Condition Number for a 3RRR Robot Using Failure  
Hiparco Lins Vieira, João Fontes, Maíra da Silva, Andre Teofilo Beck



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