<table>
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<th>[OC2] Optimisation and Design 2</th>
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<td>Date and Time</td>
<td>June 21 (Wednesday) / 16:20-18:00</td>
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<td>Place</td>
<td>Grand Ballroom (2F, 201)</td>
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<td>Session Chair</td>
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### OC2-1 16:20-16:40

**A benchmark TEAM problem for multiobjective Pareto optimization of electromagnetic devices**

Di Barba, Paolo (1); Mognaschi, Maria Evelina (1); Xiao, Song (2); Lowther, David Alister (3); Sykulski, Jan K. (4)  
1: University of Pavia, Pavia, Italy; 2: Southwest Jiaotong University, Chengdu, China; 3: McGill University, Montreal, Quebec, Canada; 4: University of Southampton, Southampton, UK

### OC2-2 16:40-17:00

**A SIMP based Methodology for Topology Optimization and its Application to Piezoelectric Energy Harvester Designs**

Li, Yilun (1); Yang, Shiyou (1); Ren, Zhuoxiang (2)  
1: Zhejiang University, China, People's Republic of; 2: Pierre and Marie Curie University, France

### OC2-3 17:00-17:20

**Variance-based Robust Optimization of Permanent Magnet Synchronous Machine**

Putek, Piotr (1); ter Maten, E. Jan W. (1); Günther, Michael (1); Sykulski, Jan K. (2)  
1: University of Wuppertal; 2: University of Southampton

### OC2-4 17:20-17:40

**Shape Optimization Procedure of Interior Permanent Magnet Motors Considering Carrier Harmonic Losses Caused by Inverters**

Yamazaki, Katsumi; Togashi, Yusuke  
Chiba Institute of Technology

### OC2-5 17:40-18:00

**Design and analysis of an IE4 Class Line-Start Synchronous Reluctance Motor Considering Total Loss and Starting Performance**

Liu, Huai cong; Lee, ju  
Hanyang UNIV., Korea, Republic of (South Korea)