

# IEEE Transactions on Pattern Analysis and Machine Intelligence

## Call for Papers

### Special Issue on Fine-Grained Visual Categorization

With the techniques for standard supervised image classification becoming increasingly practical, fine-grained image categorization where images are classified into subordinate categories, have recently attracted a lot of attention and become an important task in computer vision. Examples of fine-grained visual categorization include but are not limited to recognizing, e.g., detailed animal species, specific subgroups of plants, and car makers and models. This special issue targets researchers and practitioners from both industry and academia to provide a forum in which to publish recent state-of-the-art achievements in the fine-grained image recognition area. Topics of interest include, but are not limited to:

- Fine-grained image recognition and categorization
- Fine-grained vehicle categorization and verification
- Visual logo detection, categorization and verification
- Person re-identification
- Vehicle re-identification
- Fashion image recognition, search and attribute prediction
- Fine-grained food recognition and ingredient analysis
- Transfer-learning from categories to subcategories
- Part-based models for fine-grained categorization
- Attribute-based models for fine-grained feature learning
- Ontology-based fine-grained visual categorization
- Fine-grained categorization with human in the loop
- Fine-grained categorization in the wild by domain adaptation
- Multi-modal data for fine-grained categorization
- Novel benchmark data
- Novel annotation, crowdsourcing approaches and tools for fine-grained data labeling

#### **Important Dates**

- **Paper submission due: August 31, 2018** (<https://mc.manuscriptcentral.com/tpami-cs>)
- Revision: January 31, 2019
- Final decision: April 15, 2019
- Publication date: July 2019 (Tentative)

#### **Guest Editors**

[Jingdong Wang](#), Microsoft Research, Beijing, China  
[Zhuowen Tu](#), University of California, San Diego, US  
[Jianlong Fu](#), Microsoft Research, Beijing, China  
[Nicu Sebe](#), University of Trento, Italy  
[Serge Belongie](#), Cornell University & Cornell Tech, US

Contact email: [jianf@microsoft.com](mailto:jianf@microsoft.com), [jingdw@microsoft.com](mailto:jingdw@microsoft.com)