|  |  |  |
| --- | --- | --- |
| Testing | Test Automation | Chang-2010-CHI,  Alegroth-2013-ICST,  Amalfitano-2014-WISE,  Patric-2016-ASE |
| Record and Replay | Chang-2010-CHI,  Alegroth-2013-ICST,  Lin-2014-TSE,  He-2016-ICWS, |
| XBI | Choudhary-2010-ICSM,  Choudhary-2012-ICST,  Semenenko-2013-ICSM,  Choudhary-2013-ICSE,  Selay-2014-DICTA,  He-2016-ICWS,  Xu-2018-TOIT |
| **Unit Testing** | Choudhary-2010-ICSM,  Choudhary-2012-ICST,  Semenenko-2013-ICSM,  Choudhary-2013-ICSE,  Amalfitano-2014-WISE,  Bajammal-2018-ICST |
| Regression Testing | Choudhary-2010-ICSM, Delamaro-2011-STVR,  Choudhary-2012-ICST,  Semenenko-2013-ICSM,  Choudhary-2013-ICSE,  Lin-2014-TSE,  Mahajan-2014-ASE,  Selay-2014-DICTA,  Mahajan-2015-ICST,  Hori-2015-SEKE,  Mahajan-2016-ICST,  Patric-2016-ASE,  He-2016-ICWS,  Chen-2017-IUI,  Kıraç-2018-JSS,  Leotta-2018-STVR,  Bajammal-2018-ICST,  Xu-2018-TOIT,  Kuchta-2018-EMSE,  Zhang-2017-ASE |
| Acceptance Testing | Choudhary-2010-ICSM,  Choudhary-2012-ICST,  Alegroth-2013-ICST,  Semenenko-2013-ICSM,  Choudhary-2013-ICSE,  Lin-2014-TSE,  Mahajan-2014-ASE,  Amalfitano-2014-WISE,  Selay-2014-DICTA,  Mahajan-2015-ICST,  Mahajan-2016-ICST,  Patric-2016-ASE,  He-2016-ICWS,  Chen-2017-IUI,  Kıraç-2018-JSS,  Leotta-2018-STVR,  Bajammal-2018-ICST  Xu-2018-TOIT,  Kuycha-2018-EMSE,  Zhang-2017-ASE |
| Differential Testing | Delamaro-2011-STVR,  Kutcha-2018-EMSE |
| Root cause analysis | Mahajan-2014-ASE,  Mahajan-2015-ICST,  Mahajan-2016-ICST,  Wan-2017-STVR (?),  Kutcha-2018-EMSE |
| GUI Testing (?) | Choudhary-2010-ICSM,  Delamaro-2011-STVR,  Choudhary-2012-ICST,  Semenenko-2013-ICSM,  Choudhary-2013-ICSE,  Alegroth-2013-ICST,  Lin-2014-TSE,  Selay-2014-DICTA,  Mahajan-2014-ASE,  Mahajan-2015-ICST,  HORI-2015-SEKE  Mahajan-2016-ICST,  He-2016-ICWS,  Zhang-2017-ASE,  Chen-2017-IUI  Xu-2018-TOIT |
| Usability Testing | Deka-2016-UIST,  Deka-2017-UIST |
| Test Report Prioritization | Feng-2016-ASE |
| Test Input Generation | Patric-2016-ASE |
| Test Case Generation | Zhang-2017-ASE |
| Design | Prototyping | Li-2010-CHI |
| Interaction Design | Deka-2016-UIST,  Deka-2017-UIST,  Bao-2017-EMSE |
| Design Search | Deka-2016-UIST,  Deka-2017-UIST |
| User Perception Prediction | Deka-2016-UIST,  Deka-2017-UIST |
| Requirements Engineering | Requirements Modeling | Li-2010-CHI  Scharf-2013-ICSE, |
| Maintenance and Comprehension | Reverse Engineering | Nguyen-2015-ASE,  Deka-2016-UIST,  Deka-2017-UIST,  Bajammal-2018-ICST |
| Feature Location | Burg-2015-UIST |
| Test Suite Maintenance | Leotta-2018-STVR |
| Development | Automated Code Generation | Nguyen-2015-ASE,  Deka-2016-UIST,  Deka-2017-UIST,  Reiss-2018-ASEj |
| Code/Documentation search(?) | Ponzanelli-2016-ICSE,  Bao-2017-EMSE,  Reiss-2018-ASEj |
| Performance-aware Development | Wan-2017-STVR |

# Platform

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Platform** | **Web** | **Mobile** | **Desktop** | **TV** | **Automotive** |
| **Frequency** | 15 | 10 | 7 | 1 | 1 |

Advanced