系统工程学院博士研究生“申请-考核”专业基础笔试

考试科目：专业基础笔试

考试形式：闭卷，150分钟，独立完成

考试范围：具体清单见附件。

考试方式：学院从清单目录中选取5篇文章，考生从其中任选1篇阅读，并根据命题要求中文作答。

考试题型：主观问答题。

满分100分。

说 明：考试时不得使用任何电子设备，可以携带1本纸质字典。

附件：

系统工程学院博士研究生“申请-考核”专业基础笔试参考论文清单

| 序号 | 论文题目 |
| --- | --- |
|  | Preference-inspired co-evolutionary algorithm using weight vectors |
|  | Differential Evolution with Multi-Population Based Ensemble of Mutation Strategies |
|  | Efficient Video Stitching Based on Fast Structure Deformation |
|  | Mapping the ecological networks of microbial communities |
|  | Median Robust Extended Local Binary Pattern for Texture Classification |
|  | Coloured Petri net-based traffic collision avoidance system encounter model for the analysis of potential induced collisions |
|  | Prefix-Adaptive and Time-Sensitive Personalized Query Auto Completion |
|  | VLCcube: A VLC enabled hybrid network structure for data centers |
|  | A model framework-based domain-specific composable modeling method for combat system effectiveness simulation |
|  | Bayes estimation of P(Y < X) for the Weibull distribution with arbitrary parameters |
|  | Multi-objective optimal design of hybrid renewable energy systems using preference- inspired coevolutionary approach |
|  | Consensus building in group decision making based on multiplicative consistency with incomplete reciprocal preference relations |
|  | Unveiling Hidden Migration and Mobility Patterns in Climate Stressed Regions: A Longitudinal Study of Six Million Anonymous Mobile Phone Users in Bangladesh |
|  | Optimal operation of a smart residential microgrid based on model predictive control by considering uncertainties and storage impacts |
|  | Extended object-oriented Petri net model for mission reliability simulation of repairable PMS with common cause failures |
|  | The iPICEA-g a new hybrid evolutionary multi-criteria decision making approach using the brushing technique |
|  | Inference on the reliability of Weibull distribution with multiply Type-I censored data |
|  | Operation Network Modeling with Degenerate Causal Strengths for Missile Defense Systems |
|  | BRBcast: A New Approach to Belief Rule-Based System Parameter Learning via Extended Causal Strength Logic |
|  | Development trend forecasting for coherent light generator technology based on patent citation network analysis |
|  | Dynamic design of sales territories |
|  | Reconfiguration of satellite orbit for cooperative observation using variable-size multi-objective differential evolution |
|  | Two phased hybrid local search for periodic capacitated arc routing problem |
|  | An adaptive large neighborhood search metaheuristic for agile satellite scheduling with time-dependent transition time |
|  | A Robust Motion Detection Algorithm on Noisy Videos. |
|  | Analysis of heterogeneous dengue transmission in Guangdong in 2014 with multivariate time series model |
|  | Reliability analysis of large phased-mission systems with repairable components based on success-state sampling |
|  | Multi-objective optimization for a closed-loop network design problem using an improved genetic algorithm |
|  | Towards dynamic real-time scheduling for multiple earth observation satellites |
|  | A pure proactive scheduling algorithm for multiple earth observation satellites under uncertainties of clouds |
|  | A Variable Reduction Strategy for Evolutionary Algorithms Handling Equality Constraints |
|  | Learning-driven many-objective evolutionary algorithms for satellite-ground time synchronization task planning problem |
|  | ANGEL: Agent-Based Scheduling for Real-Time Tasks in Virtualized Clouds |
|  | Fault-Tolerant Scheduling for Real-Time Tasks on Multiple Earth-Observation Satellites |
|  | Clustering based Link Prediction in Scientific Coauthorship Networks |
|  | Towards energy-efficient scheduling for real-time tasks under uncertain cloud computing environment |
|  | Scheduling for Workflows with Security-Sensitive Intermediate Data by Selective Tasks Duplication in Clouds |
|  | FESTAL: Fault-Tolerant Elastic Scheduling Algorithm for Real-Time Tasks in Virtualized Clouds |
|  | A high performance framework for modeling and simulation of large-scale complex systems |
|  | An accurate interest matching algorithm based on prediction of the space-time intersection of regions for the distributed virtual environment |
|  | Atmospheric dispersion prediction and source estimation of hazardous gas using artificial network, particle swarm optimization and expectation maximization |
|  | Deep Learning for visual understanding： A review |
|  | A Lookahead Behavior Model for Multi-Agent Hybrid Simulation |
|  | A Novel Specific Image Scenes Detection Method |
|  | Load balancing for multi-threaded PDES of stochastic reaction-diffusion in neurons |
|  | Multithreaded Stochastic PDES for Reactions and Diffusions in Neurons |
|  | Model architecture-oriented combat system effectiveness |
|  | Multi-typed Community Discovery in Time-Evolving Heterogeneous Information Networks based on Tensor Decomposition |
|  | An Empirical Study of Bayesian Network Parameter Learning with Monotonic Influence Constraints |
|  | Personalized Query Suggestion Diversification |
|  | Learning from homologous queries and semantically related terms for query auto completion |
|  | Continuous action segmentation and recognition using hybrid convolutional neural network-hidden Markov model mode |
|  | Towards Frequent Subgraph Mining on Single Large Uncertain Graphs |
|  | Efficient Multiset Synchronization |