系统工程学院博士研究生"申请-考核"制招生专业基础笔试考试大纲

考试科目：学科专业英语综合能力

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。

系统工程学院博士研究生"申请-考核"
入学资格考试参考论文清单

序号	论文题目
1.	Preference-inspired co-evolutionary algorithm using weight vectors
2.	Differential Evolution with Multi-Population Based Ensemble of Mutation Strategies
3.	Efficient Video Stitching Based on Fast Structure Deformation
4.	Mapping the ecological networks of microbial communities
5.	Median Robust Extended Local Binary Pattern for Texture Classification
6.	Coloured Petri net-based traffic collision avoidance system encounter model for the analysis of potential induced collisions
7.	Prefix-Adaptive and Time-Sensitive Personalized Query Auto Completion
8.	VLCcube: A VLC enabled hybrid network structure for data centers
9.	A model framework-based domain-specific composable modeling method for combat system effectiveness simulation
10.	Bayes estimation of $P(Y < X)$ for the Weibull distribution with arbitrary parameters
11.	Multi-objective optimal design of hybrid renewable energy systems using preference- inspired coevolutionary approach
12.	Consensus building in group decision making based on multiplicative consistency with incomplete reciprocal preference relations
13.	Unveiling Hidden Migration and Mobility Patterns in Climate Stressed Regions: A Longitudinal Study of Six Million Anonymous Mobile Phone Users in Bangladesh
14.	Optimal operation of a smart residential microgrid based on model predictive control by considering uncertainties and storage impacts
15.	Extended object-oriented Petri net model for mission reliability simulation of repairable PMS with common cause failures
16.	The iPICEA-g a new hybrid evolutionary multi-criteria decision making approach using the brushing technique
17.	Inference on the reliability of Weibull distribution with multiply Type-I censored data
18.	Operation Network Modeling with Degenerate Causal Strengths for Missile Defense Systems
19.	BRBcast: A New Approach to Belief Rule-Based System Parameter Learning via Extended Causal Strength Logic
20.	Development trend forecasting for coherent light generator technology based on patent citation network analysis
21.	Dynamic design of sales territories

序号	论文题目
22.	Reconfiguration of satellite orbit for cooperative observation using variable-size multi-objective differential evolution
23.	Two phased hybrid local search for periodic capacitated arc routing problem
24.	An adaptive large neighborhood search metaheuristic for agile satellite scheduling with time-dependent transition time
25.	A Robust Motion Detection Algorithm on Noisy Videos.
26.	Analysis of heterogeneous dengue transmission in Guangdong in 2014 with multivariate time series model
27.	Reliability analysis of large phased-mission systems with repairable components based on success-state sampling
28.	Multi-objective optimization for a closed-loop network design problem using an improved genetic algorithm
29.	Towards dynamic real-time scheduling for multiple earth observation satellites
30.	A pure proactive scheduling algorithm for multiple earth observation satellites under uncertainties of clouds
31.	A Variable Reduction Strategy for Evolutionary Algorithms Handling Equality Constraints
32.	Learning-driven many-objective evolutionary algorithms for satellite-ground time synchronization task planning problem
33.	ANGEL: Agent-Based Scheduling for Real-Time Tasks in Virtualized Clouds
34.	Fault-Tolerant Scheduling for Real-Time Tasks on Multiple Earth-Observation Satellites
35.	Clustering based Link Prediction in Scientific Coauthorship Networks
36.	Towards energy-efficient scheduling for real-time tasks under uncertain cloud computing environment
37.	Scheduling for Workflows with Security-Sensitive Intermediate Data by Selective Tasks Duplication in Clouds
38.	FESTAL: Fault-Tolerant Elastic Scheduling Algorithm for Real-Time Tasks in Virtualized Clouds
39.	A high performance framework for modeling and simulation of large-scale complex systems
40.	An accurate interest matching algorithm based on prediction of the space-time intersection of regions for the distributed virtual environment
41.	Atmospheric dispersion prediction and source estimation of hazardous gas using artificial network, particle swarm optimization and expectation maximization
42.	Deep Learning for visual understanding：A review
43.	A Lookahead Behavior Model for Multi-Agent Hybrid Simulation
44.	A Novel Specific Image Scenes Detection Method
45.	Load balancing for multi-threaded PDES of stochastic reaction-diffusion in neurons
46.	Multithreaded Stochastic PDES for Reactions and Diffusions in Neurons

序号	论文题目
47.	Model architecture-oriented combat system effectiveness
48.	Multi-typed Community Discovery in Time-Evolving Heterogeneous Information Networks based on Tensor Decomposition
49.	An Empirical Study of Bayesian Network Parameter Learning with Monotonic Influence Constraints
50.	Personalized Query Suggestion Diversification
51.	Learning from homologous queries and semantically related terms for query auto completion
52.	Continuous action segmentation and recognition using hybrid convolutional neural network-hidden Markov model mode
53.	Towards Frequent Subgraph Mining on Single Large Uncertain Graphs
54.	Efficient Multiset Synchronization