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analysis', 'charge domain characteristics', 'supervised deep learning', 'semantic technologies', 'mapreduce', 'dcnn', 'nike', 'algorithm design and analysis', 'infrastructure', 'paralleled closed-loop control system', 'large-scale systems', 'gradient based learning algorithms', 'i2sparks', 'deep learning research', 'disease', 'manufacturing systems')

('abstract23') > ('middleware', 'word construction rules', 'data quality dimension', 'distributed databases', 'dcnn', 'filter', 'algorithm design and analysis', 'process identification', 'job shop scheduling', 'open loop systems', 'hippocampal ltp process', 'qos')

('abstract24') > ('ports (computers)', 'inter-university upper atmosphere global observation network', 'big data integration', 'time series analysis', 'analog storage', 'dual codes', 'multilayer support vector machine', 'objective function', 'dictionary', 'data quality dimension', 'dcnn', 'i2sparks', 'traditional training method', 'threat judgment', 'artificial intelligence functions', 'cni implementation', 'information retrieval')

('abstract25') > ('artificial intelligence', 'analog storage', 'adaptation rule circuit', 'vlsi implementation', 'feedforward', 'facebook data', 'platform independent machine learning library', 'chinese new word extraction', 'performance evaluation', 'transputers', 'job shop scheduling', 'deep convolutional belief network', 'output feedback', 'm.2 ssd cache', 'high-capacity associative memory', 'ontologies (artificial intelligence)', 'data science process', 'language', 'security', 'data usability', 'protocol')

('abstract26') > ('strategy', 'backpropagation algorithms', 'deep core learning', 'large flexible space structures', 'random forest algorithm', 'heating systems', 'industry', 'dynamic', 'two-stage machine learning system', 'machine learning accuracy', 'dcnn', 'random variables imbalanced classes', 'application allocation', 'input data preprocessing methods', 'research data management', 'binary relation', 'cellular neural nets', 'pattern clustering', 'company ip', 'insider threat detection', 'accuracy', 'contract', 'nonlinear system', 'imbalanced classes', 'public domain software', 'data integration and analysis system program', 'data usability')

('abstract27') > ('subject-based data archives', 'information retrieval systems', 'standard', 'concrete', 'discriminative loss function optimization', 'deep reinforcement learning', 'boosting', 'hpc collocation', 'design engineering', 'cluster structure', 'single-layered neural network', 'road accident', 'social media big data analysis', 'deep convolutional belief network', 'market prediction', 'distributed tensorflow', 'high dimensional feature space', 'data usability', 'commercial hotspots mining', 'road traffic')

('abstract28') > ('analog storage', 'seal', 'alzheimers disease classification', 'memory retrieval process', 'boolean factor analysis', 'wuhan', 'dcnn', 'benchmark deep learning datasets', 'imbalanced distributions', 'standard backpropagation', 'cache storage', 'big data scheduling', 'speech recognition', 'cooperative behavior', 'deep learning algorithm', 'electronic learning', 'multilayer neural network', 'basal ganglia', 'cluster mining')

('abstract29') > ('statistical learning', 'artificial intelligence', 'analog storage', 'i2mathematical model', 'clustering algorithms', 'continuous hopfield neural network', 'patient datasets', 'distributed databases', 'fpga', 'nearest neighbor searches', 'dcnn', 'deep dictionary learning framework', 'information systems', 'identity-based encryption', 'electronic mail', 'business', 'h/sup spl infin control', 'i2sparks', 'library', 'cluster mining')

('abstract30') > ('biomedical education', 'behavior generation', 'dataset query', 'ma', 'computational modeling', 'switched capacitor networks', 'software prototyping', 'i2data visualization', 'hybrid intelligent systems', 'hopfield neural nets', 'classifier training', 'hospital', 'discrete bidirectional associative memory neural network', 'error analysis', 'video streaming', 'dcnn', 'representations learning', 'federated intercloud environment', 'company ip', 'neuron', 'peer-to-peer computing', 'rl agent', 'data usability', 'word segmentation')

('abstract31') > ('heuristic algorithms', 'hierarchical deep learning models', 'knowledge extraction', 'artificial intelligence', 'multilayer perceptron structure', 'i2multi-layer neural network', 'intelligent cooperative multiple agents', 'kera', 'bioinformatics', 'roc', 'formal concept', 'error analysis', 'dcnn', 'benchmark deep learning datasets', 'hypertension big data research', 'imbalanced distributions', 'theoretical analysis', 'extraterrestrial measurements', 'joint learning agents', 'generating control bits')

('abstract32') > ('big data integration', 'index', 'artificial intelligence', 'analog storage', 'biomedical imaging', 'data representation', 'cognitive memory', 'hyper planes', 'distributed databases', 'deep learning based recommender systems', 'dcnn', 'istm based model', 'pose estimation', 'big social data', 'algorithm design and analysis', 'dynamic security-level maximization', 'gos requirements', 'google', 'i2sparks')

('abstract33') > ('ssd cache', 'software prototyping', 'dictionary', 'satellite', 'feature extraction and classification', 'distributed databases', 'dcnn', 'i2computer architecture', 'wavelength division multiplexing', 'library', 'hippocampal ltp process', 'asynchronous blocks', 'cluster mining', 'classifier')

('abstract34') > ('i2biological neural networks', 'hardware implementation', 'partitioning algorithms', 'artificial intelligence', 'environmental characteristics', 'analog storage', 'cloud', 'finger joint detection', 'object identification', 'biological neural networks', 'data visualization', 'crisp-dm', 'i2computer architecture', 'next-gen tools', 'dynamical learning process', 'algorithm design and analysis', 'time-average security-level', 'maximal margin classification', 'i2sparks', 'inter-cloud', 'counting circuits')

('abstract35') > ('open-loop structures', 'i2cognitive systems', 'pressure measurement', 'iterative methods', 'counter-terrorism', 'video analysis', 'dynamic scheduling', 'function approximation', 'i2mathematical model', 'dcnn', 'deep neural network', 'clustering', 'library hippocampal circuit', 'pattern classification')

('abstract36') > ('ssd cache', 'pr learning', 'synapse circuits', 'analog storage', 'reinforcement learning', 'read-write memory', 'fatigue', 'synchronization', 'big data discovery', 'functional link network', 'threat analysis', 'hyperparameters', 'power measurement', 'communication links', 'mean root mean squared error', 'iot', 'user assessable data files', 'medical computing', 'auto-associative memory', 'cnn implementations', 'algorithm design and analysis', 'internet of things', 'planning', 'exploratory machine learning attack', 'deep convolutional belief network', 'synaptic-synaptic interaction equations', 'optimal designed nonlinear continuous neural network', 'system stability', 'graphical user interfaces', 'deep belief networks')

('abstract37') > ('haar transforms', 'decision support systems', 'digitally-controlled synapse', 'handwritten number recognition', 'analog storage', 'cased based reasoning', 'context', 'geospatial data point extraction', 'clinical big data', 'space technology', 'function approximation capability', 'uncertain big data mining', 'mapreduce model', 'deep q-learning', 'optical fibre networks', 'aerospace control', 'predictable inference performance', 'dcnn', 'domain-model terms', 'pose estimation', 'feature continuum', 'rule induction', 'i2fuzzy neural networks', 'big social data', 'multiband speech recognition', 'algorithm design and analysis', 'fuzzy sets', 'cache storage', 'least squares methods', 'disturbance-rejection neural network control', 'data analytics problems', 'business data processing', 'data archive', 'data source', 'kubernetes', 'personnel', 'deep learning research', 'disease', 'supervised fast learning filter neural network', 'i2backpropagation')

('abstract38') > ('medical services', 'artificial intelligence', 'standard', 'collaborative work', 'design optimization', 'learning algorithm', 'clustering algorithms', 'big data geospatial visibility', 'distributed databases', 'dcnn', 'i2computer architecture', 'fault detection', 'dia', 'datamining', 'customer relationship management', 'high dimensional feature space', 'programming', 'data usability')

('abstract39') > ('brain-inspired systems', 'surveillance', 'analog storage', 'cognitive linguistics', 'sign recognition', 'fuzzy neural nets', 'fundamental ai problems', 'building', 'cluster classification', 'hardware-friendly neural structures', 'coal mining', 'flexible visualization-based user interface', 'dcnn', 'training samples', 'patient prognosis', 'mitre research team', 'unknown nonlinear plant', 'analytical models', 'x-ray image', 'dynamic loci', 'dynamic security-level maximization', 'i2sparks', 'stabilization', 'petroleum', 'infinity norm', 'hadoop yarn', 'event-driven acyclic neural networks')

('abstract40') > ('cross industry standard platform for data mining', 'sosevi', 'hardware topological constraints', 'neural network', 'multilayer support vector machine', 'hilbert space', 'neurofeedback', 'network topology', 'cafflash', 'dcnn', 'data storage', 'imbalanced distributions', 'traffic engineering computing', 'backpropagation', 'text categorization', 'machine learning strategies', 'vibration control', 'i2magnesium compounds', 'deep learning method', 'library', 'scheduling', 'software algorithms', 'missing patient data')

('abstract41') > ('multimedia communication', 'analogue computer circuits', 'hetero-associative memory', 'dynamic programming', 'crowd sourcing geographic data today', 'loss measurement', 'data scheduling', 'distributed mining', 'emotional systems', 'benchmark deep learning datasets', 'filter neural network', 'machine vision quality inspection', 'computer centres', 'learning techniques', 'unsupervised deep learning', 'functional regression', 'i2genetic programming', 'spatial databases', 'deep learning algorithm', 'meteorology', 'live data analysis', 'terrestrial atmosphere', 'knee', 'robustness', 'flexible structures', 'temperature measurement')

('abstract42') > ('storage management', 'fault diagnosis model', 'communication networks', 'signal generators', 'adaptation rule circuit', 'engineering', 'extended bidirectional associative memory neural network', 'flash-based capacitor', 'noise measurement', 'dcnn', 'i2computer architecture', 'behavior changes', 'deep sarsa learning', 'correlation', 'fault tolerance', 'modern storage systems', 'haar wavelet', 'q-learning algorithm', 'testing', 'deep learning research')

('abstract43') > ('digitally-controlled synapse', 'artificial intelligence', 'analog storage', 'intelligent control', 'hard disk drive', 'dcnn', 'pose estimation', 'big social data', 'ca problem', 'kubernetes', 'parallel classifiers ensemble', 'scalable machine learning problems', 'deep learning research', 'hippocampal ltp process', 'medical diagnostic computing', 'remote sensing data classification')

('abstract44') > ('field programmable neural arrays', 'decision tree induction algorithms id3', 'adaptive filters', 'observatory', 'algorithm design and analysis', 'cybernetics', 'programming', 'hidden units')

('abstract45') > ('cognitive solution', 'gas turbine', 'iot sensor device', 'graphics processing unit', 'model stability', 'job production systems', 'machine learning algorithms', 'information services', 'state estimation', 'matched filters', 'algorithm design and analysis', 'machine learning in medicine', 'doubles pong game', 'big data scheduling', 'bayes methods', 'research community', 'fuzzy number spaces', 'modelling', 'big data platforms', 'i2machine learning')

('abstract46') > ('gesture recognition', 'field programmed neural networks', 'algorithm', 'aida sales framework', 'counter-terrorism', 'i2mathematical model', 'compensator', 'order parameter coherency', 'rbm', 'dcnn', 'semantics', 'tellurium', 'content-addressable storage', 'asynchronous random neural networks', 'decision tree', 'computer architecture', 'intel xeon e5540 processors', 'i2data mining', 'online machine learning algorithms', 'pattern classification')

('abstract47') > ('temporal series', 'convex hull', 'data engineering', 'effectiveness', 'm-p model', 'lifetime estimation', 'lyapunov optimization', 'clinical big data analysis', 'mean root mean squared error', 'quadratic programming', 'relaxation theory', 'algorithm design and analysis', 'workflow', 'biological system modeling', 'blood pressure measurement', 'data exchange scheme', 'biological neural network', 'big data scheduling', 'tensorflow', 'genetic algorithm', 'mos capacitors')

('abstract48') > ('transfer functions', 'supervised classification', 'game ai communities', 'fault samples', 'semisupervised machine learning', 'backpropagation learning', 'iot devices', 'graphics processing unit', 'graphical user interface', 'big data quality', 'geospatial data point normalization', 'lyapunov optimization', 'tagging', 'data collection', 'wuc', 'feedforward neural network', 'algorithm design and analysis', 'i2sparks', 'knowledge acquisition', 'i2fault diagnosis', 'virtual neural links', 'deep representation learning')

('abstract49') > ('neuroboard', 'hybrid network', 'field programmable neural arrays', 'counter-terrorism field', 'chemical', 'flexible beam', 'proposal', 'deep multiple instance learning', 'logistics', 'i2machine learning algorithms', 'energy consumption', 'optical fiber communication', 'digital integrated circuits', 'interoperability', 'data maintenance', 'observatory', 'post operative implanted knee function prediction', 'big data scheduling', 'big data processing', 'mathematics', 'customer relationship management', 'data integration', 'data locality manager', 'visualization', 'laboratory', 'convolutional codes')

('abstract50') > ('predictive medicine', 'analog computation', 'multiprocessor interconnection networks', 'convolution', 'dqn', 'hetero-associative memory', 'i2x-ray imaging', 'fuzzy logic', 'graphics processing unit', 'big data machine learning', 'cognitive robotics', 'up/down counter', 'association rules', 'information processing', 'customer relationship management', 'i2sparks', 'feedforward neural networks', 'nonsmooth membership functions')

('abstract51') > ('effectiveness', 'application execution scheduling', 'dcnn', 'mean root mean squared error', 'force', 'public health', 'data collection', 'prototype', 'power generation economics', 'customer relationship management', 'record processing', 'learning (artificial intelligence)', 'crisp-dm process', 'adversarial machine learning', 'fault diagnosis', 'systems engineering and theory', 'electronic neonic model', 'pagerank', 'deep learning algorithm', 'pattern matching', 'deep thinking', 'signal processing', 'research and development', 'mil', 'i2dictionaries', 'stacked denoising autoencoders')

('abstract52') > ('quality assessment', 'text classification application', 'total knee arthroplasty', 'discrete wavelet transforms', 'fault tolerant computing', 'very large scale integration', 'support vector machine classification', 'organization performance', 'hippocampus', 'open source machine learning', 'x-ray image', 'large-scaled neural systems', 'big data scheduling', 'video frames', 'customer relationship management', 'gpu processing power', 'formal concept analysis')

('abstract53') > ('big data i/o performance', 'classification algorithms', 'engine', 'analog storage', 'government', 'highly accurate inference', 'distributed databases', 'routing', 'push recovery learning', 'backpropagation neural network', 'dcnn', 'radial basis function network structure', 'credit assignment problem', 'hard discs', 'neural network hardware', 'telecommunication network routing', 'latent variable', 'i2kinematics', 'deep learning algorithm', 'library', 'ontologies (artificial intelligence)', 'infinity control', 'i2training cluster mining')

('abstract54') > ('factor concepts', 'analog storage', 'first-person perspective game', 'i2cognitive systems', 'pressure measurement', 'hand x-ray image', 'counter-terrorism', 'video analysis', 'stability', 'hierarchical feature representation', 'order parameter coherency', 'dcnn', 'algorithm design and analysis', 'geospatial search', 'progression evaluation', 'oddball', 'fpna', 'data analysis', 'input data table', 'big data systems', 'noisy deep dictionary learning', 'internet', 'signal detection', 'complex datasets')

('abstract55') > ('data models', 'knee surgeries', 'unlabeled/unsupervised data', 'returns to scale', 'deep learning structure', 'i2big data', 'behavior acquisition', 'hetero-associative memory', 'human arm movement patterns', 'finance', 'information analysis', 'decision making', 'record processing', 'learning (artificial intelligence)', 'crisp-dm process', 'adversarial machine learning', 'fault diagnosis', 'systems engineering and theory', 'electronic neonic model', 'pagerank', 'deep learning algorithm', 'pattern matching', 'deep thinking', 'signal processing', 'research and development', 'analogue integrated circuits', 'geographic information systems', 'biomedical monitoring', 'wavelength routing', 'web pages', 'geophysical image processing', 'classifier')

('abstract56') > ('i2s classifier inference', 'cognitive linguistics', 'large-scale hypertension research project', 'maintenance engineering', 'triples (data structure)', 'outer-product synaptic weight adjustments', 'digital integrated circuits', 'mean root mean squared error', 'open source machine learning', 'x-ray image', 'large-scaled neural systems', 'big data scheduling', 'video frames', 'customer relationship management', 'analog integrated circuits', 'error correction', 'asynchronous blocks', 'focused mining')

('abstract57') > ('dictionary learning', 'big data machine learning research', 'artificial generalized intelligence', 'cardiovascular diseases', 'image annotation', 'discrete hopfield neural network', 'iugonet', 'effectiveness', 'ad classification', 'ordinary differential equation', 'rewarding system', 'training data', 'production engineering computing', 'dcnn', 'control signal', 'workload balanced division', 'big data access', 'decision tree induction algorithms c4.5', 'reward schemes', 'dynamic control algorithm', 'customer relationship management', 'company data', 'i2sparks', 'heart', 'deep learning inference runtime', 'boltzmann machines', 'chemical technology', 'cooperative systems')

('abstract58') > ('svm classifier inference', 'time factors', 'benes interconnection network', 'control logic circuit', 'deep reinforcement learning approach', 'statistical learning algorithm', 'dot product matching neural network', 'i2spatial data forecasting', 'statistic', 'svm classifier inference', 'time factors', 'benes interconnection network', 'control logic circuit', 'deep reinforcement learning approach', 'statistical learning algorithm', 'dot product matching neural network', 'i2spatial data forecasting', 'statistic', 'svm classifier inference', 'time factors', 'benes interconnection network', 'control logic circuit', 'deep reinforcement learning approach', 'statistical learning algorithm', 'dot product matching neural network', 'i2spatial data forecasting', 'statistic', 'svm classifier inference', 'time factors', 'benes interconnection network', 'control logic circuit', 'deep reinforcement learning approach', 'statistical learning algorithm', 'dot product matching neural 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approach', 'statistical learning algorithm', 'dot product matching neural

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('abstract12', 'abstract54') > ('digital integrated circuits', 'mean root mean squared error', 'large-scaled neural systems', 'customer relationship management')  
('abstract13', 'abstract16') > ('wavelength division multiplexing', 'i>sparks')  
('abstract13', 'abstract32') > ('big social data', 'algorithm design and analysis', 'i>sparks')  
('abstract13', 'abstract45') > ('iot sensor device', 'algorithm design and analysis', 'i>sparks')  
('abstract13', 'abstract51') > ('effectiveness', 'force')  
('abstract13', 'abstract53') > ('effectiveness', 'i>sparks')  
('abstract13', 'abstract57') > ('order parameter coherency', 'algorithm design and analysis')  
('abstract14', 'abstract20') > ('analog storage', 'clustering algorithms', 'dcnn', 'deep reinforcement learning algorithm')  
('abstract14', 'abstract29') > ('analog storage', 'clustering algorithms', 'dcnn', 'library')  
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File - apply\_fca

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