

Granted/Issued and Pending USPTO Patents

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Issued Patents

124. US11677770. Data Retrieval for Anomaly Detection [↗](#). 2023.
123. US11657189. Object Loss Prevention Using Cognitive Computing [↗](#). 2023.
122. US11620334. Commercial Video Summaries Using Crowd Annotation [↗](#). 2023.
121. US11601693. Automatic Adaptation of Digital Content [↗](#). 2023.
120. US11681814. Automatic and Customized Data Deletion Actions [↗](#). 2023.
119. US11663923. Screening Material Waste [↗](#). 2023.
118. US11271829. Sla-Aware Task Dispatching With a Task Resolution Control [↗](#). 2022.
117. US11375251. Automatically Generating Enhancements to Av Content [↗](#). 2022.
116. US11252202. Support Request Assignment Using Pace of Conversation [↗](#). 2022.
115. US11289076. Assisting Meeting Participants via Conversation Loop Detection and Resolution Using Conversation Visual Representations and Time-Related Topic Usage [↗](#). 2022.
114. US11316886. Preventing Vulnerable Configurations in Sensor-Based Devices [↗](#). 2022.
113. US11249743. Data Analytics to Determine Software Maintenance Advisory Using Input Data [↗](#). 2022.
112. US11468134. Provisioning a Customized Software Stack for Network-Based Question and Answer Services [↗](#). 2022.
111. US11380215. Reward-Based Ecosystem for Tracking Nutritional Consumption [↗](#). 2022.
110. US11250086. Visualization and Augmentation of Human Knowledge Construction During Material Consumption [↗](#). 2022.
109. US11425639. Trusted Method for Consuming and Sharing Wi-Fi Internet Access [↗](#). 2022.
108. US11263278. Triggering Personalized Search Queries Based on Physiological and Behavioral Patterns [↗](#). 2022.
107. US11206190. Using an Artificial Intelligence Based System to Guide User Dialogs in Designing Computing System Architectures [↗](#). 2021.
106. US11176024. Software Patch Application and Testing Optimization [↗](#). 2021.
105. US11132181. Computer Enhanced and Automatic Computer-Generated Integrated Development Environment Reconfiguration [↗](#). 2021.
104. US11210108. Guiding the Installation Process of Sensor-Based Devices [↗](#). 2021.
103. US11055195. Orchestrating an Interruption During Installation of Sensor-Based Devices [↗](#). 2021.
102. US11163592. Generation of Benchmarks of Applications Based on Performance Traces [↗](#). 2021.
101. US11138094. Creation of Minimal Working Examples and Environments for Troubleshooting Code Issues [↗](#). 2021.
100. US11126646. Implicit and Explicit Cognitive Analyses for Data Content Comprehension [↗](#). 2021.

99. US11126524. Configuration of Key-Mapping [↗](#). 2021.
98. US11173835. Notifying Passengers of Imminent Vehicle Braking [↗](#). 2021.
97. US11087569. Vehicle Accident Data Management System [↗](#). 2021.
96. US11158016. Customized Career Counseling and Management [↗](#). 2021.
95. US10979298. Collaboration Network and Server [↗](#). 2021.
94. US10958828. Advising Image Acquisition Based on Existing Training Sets [↗](#). 2021.
93. US10958708. Crowdsourcing Big Data Transfer [↗](#). 2021.
92. US10949545. Data Privacy Awareness in Workload Provisioning [↗](#). 2021.
91. US10999301. Methods, Systems, and Program Product for Analyzing Cyber-Attacks Based on Identified Business Impacts on Businesses [↗](#). 2021.
90. US11093280. Automatic Reconfiguration of High Performance Computing Job Schedulers Based on User Behavior, User Feedback, and Job Performance Monitoring [↗](#). 2021.
89. US10972532. Dynamic Shared Server Resource Allocation [↗](#). 2021.
88. US11030011. User Interface and System Supporting User Decision Making and Readjustments in Computer-Executable Job Allocations in the Cloud [↗](#). 2021.
87. US11074057. System and Method for Determining When Cloud Virtual Machines Need to Be Updated [↗](#). 2021.
86. US10638206. Video Annotation Based on Social Media Trends [↗](#). 2020.
85. US10680912. Infrastructure Resource Provisioning Using Trace-Based Workload Temporal Analysis for High Performance Computing [↗](#). 2020.
84. US10635825. Data Privacy Awareness in Workload Provisioning [↗](#). 2020.
83. US10783594. Agriculture Management Based on Farmer Expertise and Interests [↗](#). 2020.
82. US10606640. Rescheduling High Performance Computing Jobs Based on Personalized Sanity Checks and Job Problem Resolution Classification [↗](#). 2020.
81. US10839098. System to Prevent Export of Sensitive Data [↗](#). 2020.
80. US10579689. Visualization and Augmentation of Human Knowledge Construction During Material Consumption [↗](#). 2020.
79. US10579751. System and Method for Conducting Computing Experiments [↗](#). 2020.
78. US10671681. Triggering Personalized Search Queries Based on Physiological and Behavioral Patterns [↗](#). 2020.
77. US10552223. User Interface and System Supporting User Decision Making and Readjustments in Computer-Executable Job Allocations in the Cloud [↗](#). 2020.
76. US10331482. Automatic Reconfiguration of High Performance Computing Job Schedulers Based on User Behavior, User Feedback, and Job Performance Monitoring [↗](#). 2019.
75. US10331481. Automatic Reconfiguration of High Performance Computing Job Schedulers Based on User Behavior, User Feedback, and Job Performance Monitoring [↗](#). 2019.
74. US10284636. Dynamic Shared Server Resource Allocation [↗](#). 2019.
73. US10255259. Providing Data Quality Feedback While End Users Enter Data in Electronic Forms [↗](#). 2019.
72. US10204091. Providing Data Quality Feedback While End Users Enter Data in Electronic Forms [↗](#). 2019.
71. US10212270. Inferring Social Protocols Guiding the Use of Portable Devices [↗](#). 2019.
70. US10360123. Auto-Scaling Thresholds in Elastic Computing Environments [↗](#). 2019.

69. US10267950. System, Method and Program Product for Providing Populace Centric Weather Forecasts [↗](#). 2019.
68. US10067798. User Interface and System Supporting User Decision Making and Readjustments in Computer-Executable Job Allocations in the Cloud [↗](#). 2018.
67. US9866619. Transmission of Hierarchical Data Files Based on Content Selection [↗](#). 2018.
66. US9898479. Data Distribution System, Method and Program Product [↗](#). 2018.
65. US9983864. System and Method for Determining When Cloud Virtual Machines Need to Be Updated [↗](#). 2018.
64. US9749459. Inferring Social Protocols Guiding the Use of Portable Devices [↗](#). 2017.
63. US9600262. System, Method and Program Product for Updating Virtual Machine Images [↗](#). 2017.
62. US9697562. Resource Provisioning for Electronic Books [↗](#). 2017.
61. US9590875. Content Delivery Infrastructure With Non-Intentional Feedback Parameter Provisioning [↗](#). 2017.
60. US9633334. Facilitating User Incident Reports [↗](#). 2017.
59. US9535751. Resource Selection Advisor Mechanism [↗](#). 2017.
58. US9513935. Auto-Scaling Thresholds in Elastic Computing Environments [↗](#). 2016.
57. US9456308. Method and System for Creating and Refining Rules for Personalized Content Delivery Based on Users Physical Activites [↗](#). 2016.
56. US9418354. Facilitating User Incident Reports [↗](#). 2016.
55. US9298443. System and Method for Determining When Cloud Virtual Machines Need to Be Updated [↗](#). 2016.
54. US9294362. Adjusting Quality of Service in a Cloud Environment Based on Application Usage [↗](#). 2016.
53. US9294363. Adjusting Quality of Service in a Cloud Environment Based on Application Usage [↗](#). 2016.
52. US9092498. Data Distribution System, Method and Program Product [↗](#). 2015.
51. US8930957. System, Method and Program Product for Cost-Aware Selection of Stored Virtual Machine Images for Subsequent Use [↗](#). 2015.
50. US9038085. System, Method and Program Product for Cost-Aware Selection of Stored Virtual Machine Images for Subsequent Use [↗](#). 2015.
49. US8983816. Efficient Evaluation of Network Robustness With a Graph [↗](#). 2015.
48. US8930541. System, Method and Program Product for Cost-Aware Selection of Templates for Provisioning Shared Resources [↗](#). 2015.
47. US9164802. System, Method and Program Product for Allocating Resources and Services [↗](#). 2015.
46. US8909189. System, Method and Program Product for Maintaining Deployed Response Team Members Synchronized [↗](#). 2014.
45. US8676985. System, Method and Program Product for Local Client Device Context-Aware Shared Resource and Service Management [↗](#). 2014.
44. US8854219. System, Method and Program Product for Providing Populace Movement Sensitive Weather Forecasts [↗](#). 2014.
43. US8854219. System, Method and Program Product for Providing Populace Movement Sensitive Weather Forecasts [↗](#). 2014.
42. US8635294. System, Method and Program Product for Proactively Provisioning Emergency Computer Resources Using Geospatial Relationships [↗](#). 2014.
41. US8832239. System, Method and Program Product for Optimizing Virtual Machine Placement and Configuration [↗](#). 2014.

40. US8046759. Resource Allocation Method and System [↗](#). 2011.

Pending Patents

39. US20230012543. Data Transformation for Acceleration of Context Migration in Interactive Computing Notebooks [↗](#).
38. US20230176881. Tracking Computer User Navigations to Generate New Navigation Paths [↗](#).
37. US20230168992. Computing Environment Software Application Testing [↗](#).
36. US20230161585. Compliance Adaption Plans and Software Component Matchmaking [↗](#).
35. US20230153072. Software Development Automated Assessment and Modification [↗](#).
34. US20230140791. Programming Task Supporting Material Generation [↗](#).
33. US20230116608. Management of Recalibration of Risk Related Models Impacted by Extreme Weather Events and Climate Change Conditions [↗](#).
32. US20230088318. Remotely Healing Crashed Processes [↗](#).
31. US20220405065. Model Document Creation in Source Code Development Environments Using Semantic-Aware Detectable Action Impacts [↗](#).
30. US20220318049. Program Context Migration [↗](#).
29. US20220308862. Coordinated Source Code Commits Utilizing Risk and Error Tolerance [↗](#).
28. US20220283930. Creating Test Cases for Testing Software Using Anonymized Log Data [↗](#).
27. US20220206786. Code Library Selection Management [↗](#).
26. US20220091829. Application Migration Using Cost-Aware Code Dependency Graph [↗](#).
25. US20220067897. Food-Product Tracking by Photogrammetry [↗](#).
24. US20210375154. Automatic Creation and Annotation of Software-Related Instructional Videos [↗](#).
23. US20200326669. Auto-Adjustable Machine Functionality Using Analytics of Sensor Data [↗](#).
22. US20200245043. Video Annotation Based on Social Media Trends [↗](#).
21. US20200134476. Generating Code Performance Hints Using Source Code Coverage Analytics, Inspection, and Unstructured Programming Documents [↗](#).
20. US20200118080. Time-Sensitive Analysis for Identifying Resources to Resolve a Requirement [↗](#).
19. US20180349828. People Interruption Management System and Method Based on Task Detection and Physiological Measures [↗](#).
18. US20180060987. Identification of Abnormal Behavior in Human Activity Based on Internet of Things Collected Data [↗](#).
17. US20170177583. System and Method for Identifying Gifts Having Shared Interests via Social Media Networking, User Profiles and Browsing Data [↗](#).
16. US20170180290. Selective Content Dissemination Based on Social Media Content Analysis [↗](#).
15. US20160132213. Efficient Facilitation of Human Review and Computational Analysis [↗](#).
14. US20170109157. System, Method and Program Product for Updating Virtual Machine Images [↗](#).
13. US20140365342. Resource Provisioning for Electronic Books [↗](#).
12. US20140358609. Discovering Task Dependencies for Incident Management [↗](#).
11. US20140358610. Discovering Task Dependencies for Incident Management [↗](#).
10. US20140337076. Managing Support Team Inquiries [↗](#).
9. US20140337377. Managing Support Team Inquiries [↗](#).
8. US20140214583. Data Distribution System, Method and Program Product [↗](#).

7. US20140067486. Systems, Methods, and Computer Program Products for Prioritizing Information [↗](#).
6. US20140045446. System, Method and Program Product for Maintaining Deployed Response Team Members Synchronized [↗](#).
5. US20140006620. System, Method and Program Product for Local Client Device Context-Aware Shared Resource and Service Management [↗](#).
4. US20130339203. Risk-Based Dynamic Geo-Location Based Replication of Services in Cloud Computing [↗](#).
3. US20130132971. System, Method and Program Product for Streamlined Virtual Machine Desktop Display [↗](#).
2. US20130116920. System, Method and Program Product for Flood Aware Travel Routing [↗](#).
1. US20060218430. System and Method for Allocating Transactions to a Plurality of Computing Systems [↗](#).