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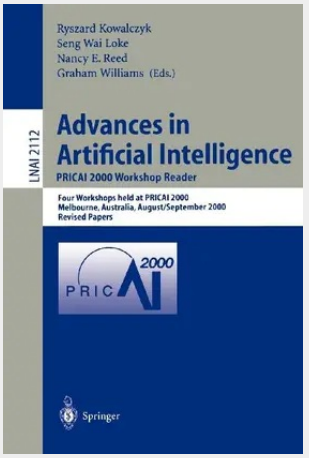
Advances in Artificial Intelligence. PRICAI 2000 Workshop Reader

Four Workshops held at PRICAI 2000, Melbourne, Australia, August 28 - September 1, 2000. Revised Papers

inmanyreal-worldapplications,andtopublicizeandextendAltechnologyto manydomainsinthisfastmovinginformationage.
Thechairsoftheworkshopsdidanexcellentjobinbringingtogethermany AIresearchersandpractitionersfromthePaci?c-Asiaregionandfromallover the world. The well received workshops at PRICAI 2000 and the publication ofthiscollectionhaveconvincinglyshownthesigni?canceandpracticalimpact oftheworkpresentedinthiscollection. ProfessorNancyReed'sgreate?ortin producingthisspecial,?necollectionwillbeapplaudedandappreciatedbymany. Iamcertainthatthiscollectionwillstimulatemoreairesearchandapplications, in? uencemanygraduatestudentstoconductresearchanddevelopmentinAI, and have a positive impact toward making our future better by creating an increasinglyintelligentworld. June2001 HuanLiu TableofContents I ApplicationsofArti?cialIntelligenceinIndustry Arti? cialIntelligenceinIndustry. 3 GrahamJ. WilliamsandDicksonLukose ApplyingBehavior-OrientedRoboticstoaMobileSecurityDevice. 5 AndreasBirkandHolgerKenn OntologyDesignandItsApplicationinthePetroleum RemediationDomain. 16 Lin-LiChenandChristineW. Chan ASalesAgentforWebsitePersonalization. 24 WeiqinChen,RyanShaw,LeifMortenson,TomFoley, andRiichiroMizoguchi AnomalyDetectionofCopmuterUsageUsingArti?cial IntelligenceTechniques. 31 JonghoChoyandSung-BaeCho ApplicationofSelf-OrganizingMapstoClassi? cationandBrowsing ofFAQE-mails. 44 Hyun-DonKimandSung-BaeCho ModelBasedProgramSpeci?cationandProgramGeneration–InaCase ofVehicle-EngineControlSystemDesign. 56 SetsuoOhsuga,ShunsukeChigusa,andKatsuyukiSugaya Classi?cationBaseduponFrequentPatterns. 72 WimPijlsandRobPotharst AnEvolutionaryApproachtoConstraint-BasedTimetabling. 80 DharmendraSharmaandNivleshChandra BOKS:ARule-BasedSysteminSupportoftheDutchBuilding MaterialsRegulations. 93 PieterSpronckandKlaasSchilstra UsingXMLasaLanguageInterfaceforAIApplications. 103 SaidTabet,PrabhakarBhogaraju,andDavidAsh INFOSHOP:ADecisionSupportToolforLocalGovernment RegulatoryAdvice. 111 IanWatson VIII TableofContents UsingBoostingtoDetectNoisyData. 123 VirginiaWheway II Arti? cialIntelligenceinElectronicCommerce Arti?cialIntelligenceinElectronicCommerce. 133 RyszardKowalczykandMariaLee ConceptualStructuresforTenderingOntology. 135 AhmadKayedandRobertM. Colomb VirtualEnterpriseDesign-BDIAgentsvs. Objects. 147 IyadRahwan,RyszardKowalczyk,andYunYang AgentBasedArchitectureforInternetMarketing. 158 SukunesanSinnappan,Mary-AnneWilliams,andSivaMuthaly PossibilisticReasoningforIntelligentPaymentAgents. 170 OnWongandRaymondLau AWeb-BasedNegotiationAgentUsingCBR. 183 DongMeiZhangandWaiYatWong III IntelligentInformationAgents IntelligentInformationAgents. 199 SengWaiLoke RelationshipsbetweenLogicProgrammingandRDF. 201 HaroldBoley AnApproachtoBuildingMobileIntelligentAgentsBasedon AnytimeMigration. 219 NaokiFukuta,Takayukilto,andToramatsuShintani Knowledge-BasedInformationAgents. 229 XiaoyingGaoandLeonSterling DesigningPerceptionModulestoShapeInformationforAgents. 239 ClintHeinze,AdrianPearce,LeonSterling,andSimonGoss DesignofaVisulizationAgentforWWWInformation. 249 HironoriHiraishi,HiroshiSawai,andFumioMizoguchi TableofContents IX RevisableAnalysisandDesignbyActorsInteraction: EmergencyCaseStudy. 259 HassenKriaaandGuyGouard`eres ALogic-BasedApproachforAdaptiveInformationFilteringAgents. 269 RaymondLau,ArthurH. M.



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