1. Record Nr. UNINA9910799249603321 Autore Chen Shanben **Titolo** Transactions on Intelligent Welding Manufacturing: Volume V No. 2 2021 Pubbl/distr/stampa Singapore:,: Springer,, 2024 ©2024 **ISBN** 981-9961-36-X Edizione [1st ed.] Descrizione fisica 1 online resource (129 pages) Collana Transactions on Intelligent Welding Manufacturing Series Altri autori (Persone) ZhangYuming FengZhili 671.52 Disciplina Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Intro -- Editorials -- Contents -- Feature Articles -- Visual Sensing Nota di contenuto for Environments Recognizing and Welding Tracking Technology in Intelligent Robotic Welding: A Review -- 1 Introduction -- 2 Calibration Technology of Vision Sensing System -- 3 Robotic Vision Guidance Technology -- 3.1 Passive Vision Based Welding Guidance --3.2 Active Vision Based Welding Guidance -- 3.3 Point Cloud Based Welding Guidance -- 4 Seam Tracking Technology -- 4.1 Passive Vision Based Seam Tracking Technology -- 4.2 Active Vision Based Seam Tracking Technology -- 5 Future Outlooks -- 5.1 High Performance AI Algorithm in Autonomous Robotic Welding -- 5.2 Development of Sensors -- 5.3 Visual Sensor Based Digital Twin -- References --Research Papers -- Crack and Reliability in Different Working Situations

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