Two Key Research Support Contracts Awarded in Support of TATRC's Autonomous Documentation (AutoDoc) Project

June 2024 was a monumental and key month for the Telemedicine and Advanced Technology Research Center (TATRC), as two long-awaited research support contracts for the AutoDoc project were finally awarded.

The first contract award is with the Federally Funded Research and Development Center (FFRDC) contractor, The MITRE Corporation. This contract allows the MITRE team to spearhead the efforts to ensure there is data interoperability between the sensors, the data aggregation devices and algorithm developers so that passive documentation and the point of injury (POI) can be achieved in a plug and play fashion. This will ensure that the technologies leveraged for the AutoDoc project can leverage the best of breed technologies for the use case, and not be constrained by propriety data schemas and/or vendor specific application programming interfaces (API). The MITRE Corporation will lead the effort by providing Data Interoperability and Autonomy Coordinating Center (DIACC) Management and Coordination Support Services to TATRC. This three-year contract was awarded on 14 June 2024.

The second contract award is a research, Other Transaction Authority (OTA) contract through the Medical Technology Enterprise Consortium (MTEC) to Ragged Edge Solutions (RES), LLC. One critical aim of TATRC's AC2 research portfolio is to build a foundational repository of data generated from multimodal sensors passively and unobtrusively collecting data during casualty care that accurately reflects tactical combat casualty care (TCCC).

AutoDoc is the first project in TATRC's Automating Casualty Care (AC2) portfolio.

One environment to collect this type of data is a semi-controlled setting of hyper-realistic medical simulation training. This award allows TATRC to collect data in a controlled, hyper realistic battlefield venue that is routinely offered by the commercial sector by the North Carolina based RES team.

"Without a means to collect data reliably and passively from the POI through higher echelons of care, the Military Health Care system will continue to lack the necessary data to develop trustworthy artificial intelligence (AI) that supports future concepts that will modernize medical operations to address the challenges faced in Multi-Domain and Large-Scale Combat Operations. TATRC welcomes the opportunity to partner with Ragged Edge Solutions to help accomplish this goal by providing a hyper realistic medical training venue for TCCC data collection," said TATRC's Commander, COL Jeremy Pamplin.

The Ragged Edge Solutions team will

commence their support of TATRC's AC2 research portfolio with the introduction of novel, hyper-realistic data collection scenarios and expert medical providers that will contribute to the foundational data repository. Their expertise in producing hyper-realistic medical scenarios will help expand existing TATRC data collection efforts within TATRC and at other research sites. Once the initial phase is completed, the RES team will commence routine data collection events for TATRC on a weekly basis. This research award has been structured for an initial 12-month period of performance, with an option to extend for an additional 12 months based on performance for a total value of $900K. This contract was formally awarded on 27 June 2024. ◢◢◢

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