

RAF SMART SCRIPT

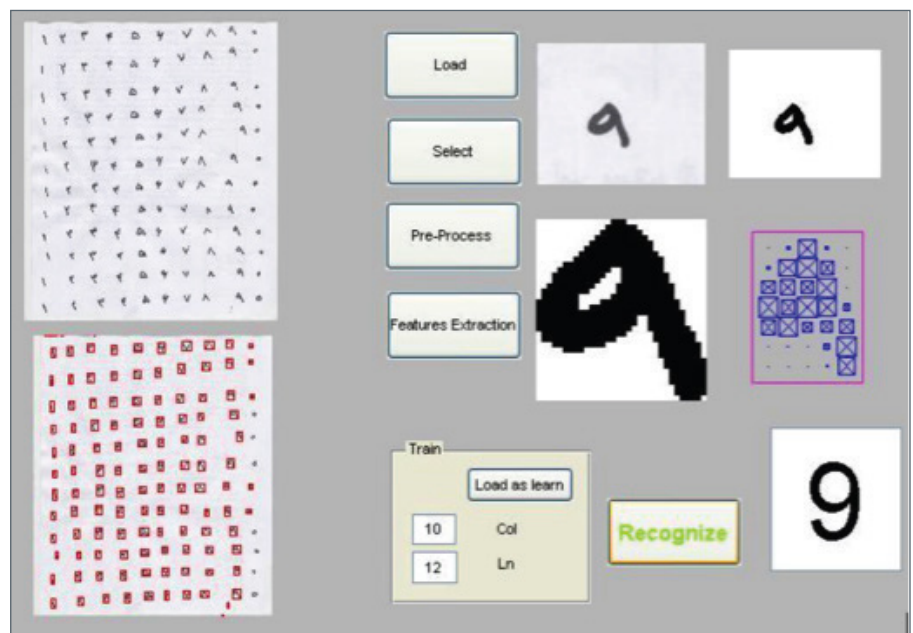


SmartScript is a handwriting address recognition engine for high-speed industrial applications like parcel and letter sortation.

Around the world hundreds of billion mail pieces are processed annually by postal operators using the latest sortation technology. Despite advances in automated sortation many posts still struggle to achieve competitive mail stream recognition rates on their ICR handwriting because achieving high read rates on handwritten mail is a very difficult problem to solve.

So why is this so important? The answer is quite simple, handwritten mail still generates a very large volume of mail in today's postal networks. In fact at the end of 2016 it was estimated postal operators around the world processed over 11.5 billion handwritten mail pieces. Compared to OCR read rates which are typically 90% or greater, current legacy ICR engines can only achieve read rates of 50% or less which translates to almost 6 billion handwritten mail pieces per year which will still require manual intervention. From a cost as well as quality of service impact, these current underperforming ICR products hamper long term sustainable growth affecting postal operators that continue to seek agility and higher profits from their networks.

However, there is finally a breakthrough product from RAF Technology called SmartScript which will significantly improve current ICR read rate performance for handwritten letters, flats, and parcels.



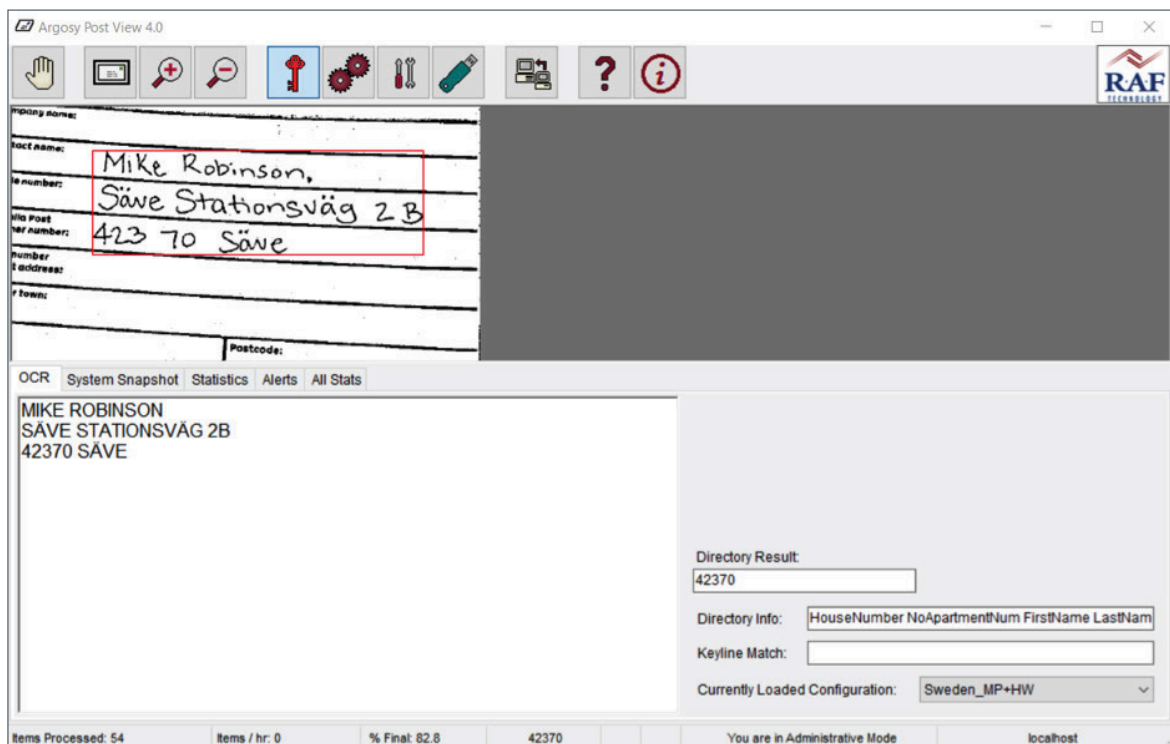
RAF's advancements in neural network research and development is a game changer! Conventional ICR engines often require tailor-made algorithms and adjustments to utilize automatic text recognition for different languages; accounting for people's different handwriting styles, text slant; as well as dealing with technical imaging issues, e.g. camera position, camera angle, uneven illumination etc.

RAF's SmartScript neural networks utilize a multi-layered learning approach whereby each neuron (node) in each layer contains information passed from other nodes seamlessly connected which provides a high degree of accuracy in both spotting text regions and deciphering characters simultaneously.

As a result, no product on the market today can match SmartScript's extraordinarily high read rate performance with the lowest error rates and do so in timeframes never seen before. Smart-Script also sets a new benchmark in performance by detecting names and building unit numbers so both full address reading as well as move updates can also take place.

KEY SMARTSCRIPT FEATURES

- Utilizes state-of-the-art neural network technology
- Delivers the industries highest handwriting recognition rates
- Eliminates unwanted character noise which reduces errors
- Provides the finest depth of sort including name and unit number
- Incorporates name assistance recognition for enhancing recognition results for addresses with missing or incorrect data
- Supports international city and country routing for cross border services



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