

Đānīīćīāāāīēā ōāēñōīā đōēīīēñīūō ē ñōāđīīā÷āōīūō ēīēā īā īñīīāā īāēđīñāōāāūō òāōīīēīāēē

Āāōīđ Nāđāāē Ēāāīīāē÷ Ēīōīēāīēī
26.06.2008 ā.
īñēāāīāā īāīīāēāīēā 15.07.2008 ā.

Ōāçēñū ā ōīđīāōā RTF (47.7 kB 2008-07-15 16:54:34) Ōāçēñū ā ōīđīāōā PDF (54.75 kB 2008-07-15 16:55:05)

Ŋōāāē īđīāēāī īāđāāīāā

ēñōīđē÷āñēēō ēñōī÷īēēīā ā īāøēīī÷ēōāāīūē ōīđīāō ē īāēāīēāā ñēīāēīūī ē ōđōāīāīēēī
īōīīñēōñý ñīçāāīēā āāđñēē đōēīīēñīūō ē ñōāđīīā÷āōīūō ēīēā ā ōīđīāōā
ýēāēōđīīīāī ōāēñōā. xōīāū īīēō÷ēōū īīēīīōāīīūē ýēāēōđīīīūē ōāēñō, ēāē īđāāēēī,
ēñīīēūçōāōñý āāī đō÷īīē ēīīūpōāđīūē īāāīđ ñ īīīūp ñīāōēāēūīūō đāāāēōīđīā. Ā
çīā÷ēōāēūīīē īāđā ōēāçāīīūā ōđōāīīñōē ñāýçāīū ñ ōāī, ÷ōī ñēāīēđīāāīēā ñ
īīñēāāōpūēī đāñīīćīāāāīēāī òāēīāī đīāā ōāēñōīā īā āāāō ōāīāēāōāīđēōāēūīūō
đāçōēūōāōīā.

īāīīē ēç īđē÷ēī ýōīāī ýāēýāōñý īāñōāīāāđōīīñōū ē
đāçīīāđāçēā đōēōōīā ēñōī÷īēēīā-īđēāēīāēīā, īāēē÷ēā īāāñōđī÷īūō çīāēīā,
īāēīāāō, īđīñōī īīāđāōīīñōē īāīēñāīēý, «çāōāđōīñōē», īīīāđēē ē ēīūā āāōāēōū,
çāōđōāīýpūēā đāñīīćīāāāīēā ñēīāīēīā.

īđāāñōāāēýāōñý, ÷ōī đāøāīēā ōēāçāīīē çāāā÷ē īīāāō ēāāōōū ā
īēīñēīñōē ñīçāāīēý ñīāōēāēēçēđīāāīīūō īđīāđāīīūō īđīāōēōīā īā īñīīāā īāēāīēāā
īāđñīāēōēāīūō āēāīā ñīāđāīāīīūō ēīōīđīāōēīīūō ōāōīīēīāēē. Ā īāñōīýuāā āđāīý ē
ōāēīāūī īōīīñýōñý ōāōīīēīāēē, īđē ñīçāāīēē ēīōīđūō ēñīīēūçōpōñý īđēāīū ē īāōīāū
ēñēōññōāāīīāī ēīōāēēāēōā.

Ŋ ōāēūp ēñīīēūçīāāīēý ōāōīīēīāēē ēñēōññōāāīīāī ēīōāēēāēōā
āēý đāøāīēý īđīāēāī īāđāāīāā ā īāøēīī÷ēōāāīūē ōīđīāō ōāēñōīā đōēīīēñīūō ē
ñōāđīīā÷āōīūō ēīēā ñīđōōāīēēē Ēāāīđāōīđēē ēñōīđē÷āñēīē ē īīēēōē÷āñēīē
ēīōīđīāōēēē ēñōīđēēī-īīēēōīēīāē÷āñēīāī ōāēōēūōāōā ē ēāōāāđū īđēēēāāīē
īāōāīāōēēē ē ēīōīđīāōēēē īāđīñēīāī ōīēāāđñēōāōā īā÷āēē ñīāīāñōīūā đāāīōū,
ēīīā÷īē ōāēūp ēīōīđūō īīāāō ñōāōū ñīçāāīēā ñīāōēāēēçēđīāāīīāī īđīāđāīīāī
ēīīīēāēñā.

īāđīñēīē īāō÷īē øēīēīē ēñēōññōāāīīāī ēīōāēēāēōā [īāđīñēāý 2008] īāēīīēāī çīā÷ēōāēūīūē īīūō đāçđāāīđēē ē āīāāđāīēý
ēīōāēēāēōōāēūīūō ēīōīđīāōēīīūō ñēñōāī, ñđāāē ēīōīđūō īāīāēīā īāñōī çāīēīāpō
ñēñōāīū, īđāāīāçīā÷āīīūā āēý đāñīīćīāāāīēý ñēīāēīūō ā ōāōīē÷āñēīī īōīđāīēē
ōāēñōīā (īā÷āōēēō, çāāđýçīāīīūō, ñ īīīāñōāīī
īīīāđīē, īāīēñāīīūō ñ ēñīīēūçīāāīēāī đāçīūō đōēōōīā), ōāēēō, ēāē āāōīīāēēūīūā
īīīāđīūā çīāēē, īīāīēñē ōāōīē÷āñēīē āīēōīāīōāōēē. Ā īñīīāā ōāēēō ñēñōāī, ēāē
īđāāēēī, ēāāōō īāēđīñāōāāūā ōāōīīēīāēē, āīīēīāīīūā āēāīđēōīāīē īđāāāđēōāēūīīē
īāđāāīōēē ēçīāđāāāīēē (ēīīōđāñōēđīāāīēā, āēīāđēçāōēý, ōāāēāīēā īīñōīđīīēō
ōđāāīāīōīā ē āđ.) ē ñđāāñōāāīē āīđāñīīćīāāāīēý, āēēp÷āpūēīē īđōīāđāōē÷āñēēē,
ñēīōāēñē÷āñēēē ē ñāīāīōē÷āñēēē āēāū āīāēēçā.

Ā īāñōīýuāā āđāīý ñ ōāēūp āīđīāāōēē
ēāāē īđēīāīāīēý īāđīāīā ēñēōññōāāīīāī ēīōāēēāēōā āēý đāñīīćīāāāīēý ñēīāīēīā
ōāēñōīā đōēīīēñīūō ē ñōāđīīā÷āōīūō ēīēā ñīçāāī āāīīñōđāōēīīūē īđīōīđēī, ā
īñīīāā ēīōīđīāī çāēīāēāī īāđñāīōđīī ñēīēñōīē ñōđōēōōđū ñ ñēāīīēāīūē
āēōēāāōēīīūē ōōīēōēýīē. Ā ēā÷āñōāā īāō÷āpūāāī īīīāñōāā āūēē ēñīīēūçīāāīū

øðeòòú ñòàðíñéàáýíñéíé òèñúíáííñòè. Ííñéá íáó-áíèý íà áòíá íáðñáíòòííá
ííáááèèèñú ñèíáíèú èç ñíòááòñòáòòúááí òáèñòà, ïðè-ái íáèíòíðúá èç íèð áúèè
èñéàæáíú ïíáðàìè, à òáèæá áúííéíáíú øðeòòíí, ïðèè-àòòèíñý òò òíáí, éíòíðúé áúè
èñííéúçíááí á íáó-àòòú ííæáñòáá.

Éàè ïíéàçàèè ýèñíáðèíáíòú, íáéðííáý ñáòú óñíáðíí
ðàñííçíáááèè àí 80 % ñèíáíèíá
áðááíáí òáèñòà.

Ííéó-áííúá ðáçóèúòàòú ààòò ñíííááíéá áíáíðèòú í
íáðñíáèèèííñòè èñííéúçíááíèý ïíáíáííáí íáéðííáòááíáí ííáóèý àèý ñíçááíèý
ñèñòáíú ðàñííçíáááíèý òáèñòá ðóèíèñíúò è ñòàðííá-àòíúò éíéá. Ñòúáñòáòòò
ðááèúíúá áíçííæííñòè ïíáíñèòú ïðíòáíò ïðááèèúíí ðàñííçíáááíúò íáðàçíá, ïðè
ýòíí íá òíèúéí ïðááèúíúò ñèíáíèíá, íí è èò ñí-áòáíèé, á òíí -èñéá ñ
íááñòðí-íúè çíáèáìè, çà ñ-àò ïíááíðà íáéáíéáá ïðèíàèúíúò ïàðááèáí íáéðíííúò
ñáòáé, à òáèæá áíííéíáíèý èò ñíáòèàèèèèèèíííè àèáíðèòíáèè ïðáá- è
ííñòíáðááíðèè èçíáðáæáíèé. Á ààèúíáéøáí ïðááííéàááòòñý ààòííàðèèèèííáòú
ááíííñòðàòèíííúé ïðíðíðèí, áíáááý ááí áí óðíáíý éíííáð-áñéíé ïðíáðáíú.

Ñíèñíè èèòáðàòòòú

Íáðíñéáý 2008 – Íáðíñéáý íáó-íáý
øéíéá èñèóññòááíííáí éíòáèèáèòà è áá èíííáòèíííúá ïðíáèòú / Ë. Í. Ññíèèèéé, Á. Á. Áííááòú, Ñ. Í. Áóðàèí è äð. ; ïíá ðáá. Ë. Í. Ññíí
ÍËÓ «Ðáááóèýðíáý è òáíðè-áñéáý àèíáìèèá», 2008. – 75 ñ.

OCR of manuscripts and early printed
books using neural networks

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This paper describes the possibilities for using
artificial intelligence technologies, in particular the neural networks, for recognition
of handwritten and early printed texts. Early results using the technology are described.